

# SAFETY DATA SHEET

SurePrint G3 CGH/CGH+SNP 1x1M Bundle, Part Number G5920A

## Section 1. Identification

### 1.1 Product identifier

<b>Product name</b>	: SurePrint G3 CGH/CGH+SNP 1x1M Bundle, Part Number G5920A	
<b>Part no. (chemical kit)</b>	: G5920A	
<b>Part no.</b>	: <input checked="" type="checkbox"/> Nuclease Free Water	5190-0439
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	5188-5221
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	5188-5222
	10X aCGH Blocking Agent	5188-6416
	2X HI-RPM Hybridization Buffer	5188-6417
	Exo(-) Klenow	5190-0437
	Random Primers	5190-0441
	5X gDNA Reaction Buffer	5190-3387
	10X dNTP Mix	5190-3388
	Cyanine-3-dUTP	5190-3389
	Cyanine-5-dUTP	5190-3390
	Cot-1 DNA	5190-3392
	Alu I	5190-3394
	Rsa I	5190-3395
	10X Restriction Enzyme Buffer	5190-3396
	BSA	5190-3397
	Human Reference DNA Male	5190-4370
	Human Reference DNA Female	5190-4371
	10 SurePrint G3 human CGH arrays, 1x1M	G3358A, G4123A, G4447-60510, G4506-60510, G4824A, G4828A, G4838A, G4840A, G4855A, G4860A, G4866A, G4882A, G4902A, G5934A

**Validation date** : 10/22/2018

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

<b>Material uses</b>	: Analytical reagent.	
	<input checked="" type="checkbox"/> Nuclease Free Water	2 x 1500 µl
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	2 x 4000000 µl
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	4000000 µl
	10X aCGH Blocking Agent	25 Hybs lyophilized
	2X HI-RPM Hybridization Buffer	1400 µl
	Exo(-) Klenow	2 x 55 µl
	Random Primers	2 x 265 µl
	5X gDNA Reaction Buffer	2 x 550 µl
	10X dNTP Mix	2 x 265 µl
	Cyanine-3-dUTP	2 x 78 µl
	Cyanine-5-dUTP	2 x 78 µl
	Cot-1 DNA	4 x 625 µl 1 µg/ µl
	Alu I	2 x 28 µl 10 U/ µl
	Rsa I	2 x 28 µl 10 U/ µl
	10X Restriction Enzyme Buffer	142 µl
	BSA	2 x 15 µl
	Human Reference DNA Male	125 µl 0.2 µg/ µl
	Human Reference DNA Female	125 µl 0.2 µg/ µl
	10 SurePrint G3 human CGH arrays, 1x1M	glass slide

## Section 1. Identification

### 1.3 Details of the supplier of the safety data sheet

**Supplier/Manufacturer** : Agilent Technologies, Inc.  
5301 Stevens Creek Blvd  
Santa Clara, CA 95051, USA  
800-227-9770


### 1.4 Emergency telephone number

**In case of emergency** : CHEMTREC®: 1-800-424-9300

**Note \*** :  **10 SurePrint G3 human CGH arrays, 1x1M:** This component is considered an article. Information provided is based on the encapsulated substance or mixture in this article.

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

<b>OSHA/HCS status</b> :  Nuclease Free Water	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
10X aCGH Blocking Agent	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
2X HI-RPM Hybridization Buffer	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Exo(-) Klenow	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Random Primers	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
5X gDNA Reaction Buffer	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
10X dNTP Mix	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Cyanine-3-dUTP	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

## Section 2. Hazards identification

Cyanine-5-dUTP	other users of this product. While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Cot-1 DNA	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Alu I	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Rsa I	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
10X Restriction Enzyme Buffer	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
BSA	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Human Reference DNA Male	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Human Reference DNA Female	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
10 SurePrint G3 human CGH arrays, 1x1M	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

### Classification of the substance or mixture

#### **10X aCGH Blocking Agent**

H315	SKIN IRRITATION - Category 2
H319	EYE IRRITATION - Category 2A
H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

#### **2X HI-RPM Hybridization Buffer**

H315	SKIN IRRITATION - Category 2
H318	SERIOUS EYE DAMAGE - Category 1
H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

## Section 2. Hazards identification





H373	irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (cardiovascular system, central nervous system (CNS), kidneys, thyroid) - Category 2	
H402	AQUATIC HAZARD (ACUTE) - Category 3	
H412	AQUATIC HAZARD (LONG-TERM) - Category 3	
<b>Exo(-) Klenow</b>		
H320	EYE IRRITATION - Category 2B	
<b>5X gDNA Reaction Buffer</b>		
H317	SKIN SENSITIZATION - Category 1	
<b>Alu I</b>		
H320	EYE IRRITATION - Category 2B	
<b>Rsa I</b>		
H319	EYE IRRITATION - Category 2A	
<b>Ingredients of unknown toxicity</b>	<p>10X aCGH Blocking Agent Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 10 - 30% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 30 - 60% Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 10 - 30%</p> <p>2X HI-RPM Hybridization Buffer Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 10 - 30% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 10 - 30% Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 10 - 30%</p> <p>Exo(-) Klenow Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 30 - 60%</p> <p>5X gDNA Reaction Buffer Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10%</p> <p>Alu I Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 30 - 60% Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10%</p> <p>Rsa I Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 30 - 60%</p> <p>10X Restriction Enzyme Buffer Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10%</p> <p>BSA Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10%</p> <p>10 SurePrint G3 human CGH Percentage of the mixture consisting of ingredient</p>	

## Section 2. Hazards identification

arrays, 1x1M	(s) of unknown inhalation toxicity: > 60%
10X aCGH Blocking Agent	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 16.6%
2X HI-RPM Hybridization Buffer	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 17.9%
5X gDNA Reaction Buffer	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 3.9%
10X Restriction Enzyme Buffer	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 1.6%
BSA	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 1%

### 2.2 GHS label elements

#### Hazard pictograms

10X aCGH Blocking Agent	
2X HI-RPM Hybridization Buffer	
5X gDNA Reaction Buffer	
Rsa I	

#### Signal word

10X aCGH Blocking Agent	No signal word.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No signal word.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No signal word.
10X aCGH Blocking Agent	Warning
2X HI-RPM Hybridization Buffer	Danger
Exo(-) Klenow	Warning
Random Primers	No signal word.
5X gDNA Reaction Buffer	Warning
10X dNTP Mix	No signal word.
Cyanine-3-dUTP	No signal word.
Cyanine-5-dUTP	No signal word.
Cot-1 DNA	No signal word.
Alu I	Warning
Rsa I	Warning
10X Restriction Enzyme Buffer	No signal word.
BSA	No signal word.
Human Reference DNA Male	No signal word.

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	Human Reference DNA Female 10 SurePrint G3 human CGH arrays, 1x1M	No signal word. No signal word.
<b>Hazard statements</b>	: Nuclease Free Water Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 10X aCGH Blocking Agent  2X HI-RPM Hybridization Buffer	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. H319 - Causes serious eye irritation. H315 - Causes skin irritation. H335 - May cause respiratory irritation. H318 - Causes serious eye damage. H315 - Causes skin irritation. H335 - May cause respiratory irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (cardiovascular system, central nervous system (CNS), kidneys, thyroid) H412 - Harmful to aquatic life with long lasting effects. H320 - Causes eye irritation. No known significant effects or critical hazards. H317 - May cause an allergic skin reaction. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. H320 - Causes eye irritation. H319 - Causes serious eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
	Exo(-) Klenow Random Primers 5X gDNA Reaction Buffer 10X dNTP Mix Cyanine-3-dUTP Cyanine-5-dUTP Cot-1 DNA Alu I Rsa I 10X Restriction Enzyme Buffer BSA Human Reference DNA Male Human Reference DNA Female 10 SurePrint G3 human CGH arrays, 1x1M	H320 - Causes eye irritation. No known significant effects or critical hazards. H317 - May cause an allergic skin reaction. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. H320 - Causes eye irritation. H319 - Causes serious eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Precautionary statements</b>		
<b>Prevention</b>	: Nuclease Free Water Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 10X aCGH Blocking Agent  2X HI-RPM Hybridization Buffer  Exo(-) Klenow Random Primers 5X gDNA Reaction Buffer	Not applicable. Not applicable. Not applicable. P280 - Wear protective gloves. Wear eye or face protection. P271 - Use only outdoors or in a well-ventilated area. P261 - Avoid breathing dust. P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves. Wear eye or face protection. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P264 - Wash hands thoroughly after handling. P264 - Wash hands thoroughly after handling. Not applicable. P280 - Wear protective gloves. P261 - Avoid breathing vapor.

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	10X dNTP Mix	P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace.
	Cyanine-3-dUTP	Not applicable.
	Cyanine-5-dUTP	Not applicable.
	Cot-1 DNA	Not applicable.
	Alu I	P264 - Wash hands thoroughly after handling.
	Rsa I	P280 - Wear eye or face protection.
	10X Restriction Enzyme Buffer	P264 - Wash hands thoroughly after handling.
	BSA	Not applicable.
	Human Reference DNA Male	Not applicable.
	Human Reference DNA Female	Not applicable.
	10 SurePrint G3 human CGH arrays, 1x1M	Not applicable.
<b>Response</b>	: Nuclease Free Water	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not applicable.
	10X aCGH Blocking Agent	P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. P332 + P313 - If skin irritation occurs: Get medical attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
	2X HI-RPM Hybridization Buffer	P314 - Get medical attention if you feel unwell. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. P332 + P313 - If skin irritation occurs: Get medical attention. P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
	Exo(-) Klenow	Not applicable.
	Random Primers	P302 + P352 + P363 - IF ON SKIN: Wash with
	5X gDNA Reaction Buffer	

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	10X dNTP Mix	plenty of soap and water. Wash contaminated clothing before reuse.
	Cyanine-3-dUTP	P333 + P313 - If skin irritation or rash occurs: Get medical attention.
	Cyanine-5-dUTP	Not applicable.
	Cot-1 DNA	Not applicable.
	Alu I	Not applicable.
		P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Rsa I	P337 + P313 - If eye irritation persists: Get medical attention.
		P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P337 + P313 - If eye irritation persists: Get medical attention.
	10X Restriction Enzyme Buffer	Not applicable.
	BSA	Not applicable.
	Human Reference DNA Male	Not applicable.
	Human Reference DNA Female	Not applicable.
	10 SurePrint G3 human CGH arrays, 1x1M	Not applicable.
<b>Storage</b>	: Nuclease Free Water	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not applicable.
	10X aCGH Blocking Agent	P405 - Store locked up.
	2X HI-RPM Hybridization Buffer	P405 - Store locked up.
	Exo(-) Klenow	Not applicable.
	Random Primers	Not applicable.
	5X gDNA Reaction Buffer	Not applicable.
	10X dNTP Mix	Not applicable.
	Cyanine-3-dUTP	Not applicable.
	Cyanine-5-dUTP	Not applicable.
	Cot-1 DNA	Not applicable.
	Alu I	Not applicable.
	Rsa I	Not applicable.
	10X Restriction Enzyme Buffer	Not applicable.
	BSA	Not applicable.
	Human Reference DNA Male	Not applicable.
	Human Reference DNA Female	Not applicable.
	10 SurePrint G3 human CGH arrays, 1x1M	Not applicable.
<b>Disposal</b>	: Nuclease Free Water	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not applicable.
	10X aCGH Blocking Agent	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	2X HI-RPM Hybridization Buffer	P501 - Dispose of contents and container in accordance with all local, regional, national and



## Section 2. Hazards identification

	Exo(-) Klenow	international regulations.
	Random Primers	Not applicable.
	5X gDNA Reaction Buffer	Not applicable.
		P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	10X dNTP Mix	Not applicable.
	Cyanine-3-dUTP	Not applicable.
	Cyanine-5-dUTP	Not applicable.
	Cot-1 DNA	Not applicable.
	Alu I	Not applicable.
	Rsa I	Not applicable.
	10X Restriction Enzyme Buffer	Not applicable.
	BSA	Not applicable.
	Human Reference DNA Male	Not applicable.
	Human Reference DNA Female	Not applicable.
	10 SurePrint G3 human CGH arrays, 1x1M	Not applicable.
<b>Supplemental label elements</b>	: <input checked="" type="checkbox"/> Nuclease Free Water	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	None known.
	10X aCGH Blocking Agent	None known.
	2X HI-RPM Hybridization Buffer	None known.
	Exo(-) Klenow	None known.
	Random Primers	None known.
	5X gDNA Reaction Buffer	None known.
	10X dNTP Mix	None known.
	Cyanine-3-dUTP	None known.
	Cyanine-5-dUTP	None known.
	Cot-1 DNA	None known.
	Alu I	None known.
	Rsa I	None known.
	10X Restriction Enzyme Buffer	None known.
	BSA	None known.
	Human Reference DNA Male	None known.
	Human Reference DNA Female	None known.
	10 SurePrint G3 human CGH arrays, 1x1M	None known.

### 2.3 Other hazards

#### **Hazards not otherwise classified**

: <input checked="" type="checkbox"/> Nuclease Free Water	None known.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	None known.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	None known.
10X aCGH Blocking Agent	None known.
2X HI-RPM Hybridization Buffer	None known.
Exo(-) Klenow	None known.
Random Primers	None known.
5X gDNA Reaction Buffer	None known.
10X dNTP Mix	None known.
Cyanine-3-dUTP	None known.
Cyanine-5-dUTP	None known.
Cot-1 DNA	None known.
Alu I	None known.
Rsa I	None known.

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10X Restriction Enzyme Buffer	None known.
BSA	None known.
Human Reference DNA Male	None known.
Human Reference DNA Female	None known.
10 SurePrint G3 human CGH arrays, 1x1M	None known.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	:	<b>Nuclease Free Water</b>	Substance
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Mixture
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Mixture
		10X aCGH Blocking Agent	Mixture
		2X HI-RPM Hybridization Buffer	Mixture
		Exo(-) Klenow	Mixture
		Random Primers	Mixture
		5X gDNA Reaction Buffer	Mixture
		10X dNTP Mix	Mixture
		Cyanine-3-dUTP	Mixture
		Cyanine-5-dUTP	Mixture
		Cot-1 DNA	Mixture
		Alu I	Mixture
		Rsa I	Mixture
		10X Restriction Enzyme Buffer	Mixture
		BSA	Mixture
		Human Reference DNA Male	Mixture
		Human Reference DNA Female	Mixture
		10 SurePrint G3 human CGH arrays, 1x1M	Mixture (encapsulated in article)

Ingredient name	%	CAS number
<b>Nuclease Free Water</b> Water	100	7732-18-5
<b>10X aCGH Blocking Agent</b> Trometamol	≥10 - ≤25	77-86-1
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≥10 - ≤25	1185-53-1
<b>2X HI-RPM Hybridization Buffer</b> Lithium chloride	≤12	7447-41-8
Polyoxyethylene octyl phenyl ether	≤6.3	9002-93-1
Lithium dodecyl sulphate	≤6.3	2044-56-6
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether	≤1.9	134180-76-0
<b>Exo(-) Klenow</b> Glycerol	≥50 - ≤75	56-81-5
<b>5X gDNA Reaction Buffer</b> 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≤5	1185-53-1
2-Mercaptoethanol	<1	60-24-2
<b>Alu I</b> Glycerol	≥50 - ≤75	56-81-5

## Section 3. Composition/information on ingredients

<b>Rsa I</b>		
Glycerol	≥50 - ≤75	56-81-5
Sodium chloride	≤3	7647-14-5
<b>10X Restriction Enzyme Buffer</b>		
Sodium chloride	≤3	7647-14-5
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≤3	1185-53-1
<b>10 SurePrint G3 human CGH arrays, 1x1M</b>		
Sodium silicate	≥90	15859-24-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### 4.1 Description of necessary first aid measures

#### Eye contact

:  Nuclease Free Water

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

10X aCGH Blocking Agent

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

2X HI-RPM Hybridization Buffer

Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Exo(-) Klenow

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

Random Primers

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

5X gDNA Reaction Buffer

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

10X dNTP Mix

Immediately flush eyes with plenty of water,

## Section 4. First aid measures

Cyanine-3-dUTP	occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Cyanine-5-dUTP	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Cot-1 DNA	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Alu I	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
Rsa I	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
10X Restriction Enzyme Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
BSA	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Human Reference DNA Male	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Human Reference DNA Female	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
10 SurePrint G3 human CGH arrays, 1x1M	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

### Inhalation

: Nuclease Free Water	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
10X aCGH Blocking Agent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if

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2X HI-RPM Hybridization Buffer

breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Exo(-) Klenow

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Random Primers

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

5X gDNA Reaction Buffer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms

## Section 4. First aid measures

	may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
10X dNTP Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Cyanine-3-dUTP	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Cyanine-5-dUTP	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Cot-1 DNA	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Alu I	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Rsa I	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
10X Restriction Enzyme Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
BSA	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Human Reference DNA Male	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Human Reference DNA Female	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
10 SurePrint G3 human CGH arrays, 1x1M	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

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<b>Skin contact</b>	: Nuclease Free Water	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	10X aCGH Blocking Agent	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	2X HI-RPM Hybridization Buffer	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Exo(-) Klenow	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Random Primers	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	5X gDNA Reaction Buffer	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	10X dNTP Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Cyanine-3-dUTP	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Cyanine-5-dUTP	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Cot-1 DNA	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Alu I	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Rsa I	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash

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	10X Restriction Enzyme Buffer	clothing before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	BSA	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Human Reference DNA Male	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Human Reference DNA Female	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	10 SurePrint G3 human CGH arrays, 1x1M	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: Nuclease Free Water	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	10X aCGH Blocking Agent	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	2X HI-RPM Hybridization Buffer	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the



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Exo(-) Klenow	<p>exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p>
Random Primers	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
5X gDNA Reaction Buffer	<p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p>
10X dNTP Mix	<p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p>
Cyanine-3-dUTP	<p>Wash out mouth with water. Remove victim to</p>

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	fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Cyanine-5-dUTP	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Cot-1 DNA	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Alu I	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Rsa I	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
10X Restriction Enzyme Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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BSA	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Human Reference DNA Male	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Human Reference DNA Female	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
10 SurePrint G3 human CGH arrays, 1x1M	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### 4.2 Most important symptoms/effects, acute and delayed

#### Potential acute health effects

##### Eye contact

<ul style="list-style-type: none"> <li>• Nuclease Free Water</li> <li>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1</li> <li>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2</li> <li>10X aCGH Blocking Agent</li> <li>2X HI-RPM Hybridization Buffer</li> <li>Exo(-) Klenow</li> <li>Random Primers</li> <li>5X gDNA Reaction Buffer</li> <li>10X dNTP Mix</li> <li>Cyanine-3-dUTP</li> <li>Cyanine-5-dUTP</li> <li>Cot-1 DNA</li> <li>Alu I</li> <li>Rsa I</li> <li>10X Restriction Enzyme Buffer</li> <li>BSA</li> <li>Human Reference DNA Male</li> <li>Human Reference DNA Female</li> <li>10 SurePrint G3 human CGH arrays, 1x1M</li> </ul>	<p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>Causes serious eye irritation.</p> <p>Causes serious eye damage.</p> <p>Causes eye irritation.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>Causes eye irritation.</p> <p>Causes serious eye irritation.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p> <p>No known significant effects or critical hazards.</p>
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<b>Inhalation</b>	:	☑ Nuclease Free Water	No known significant effects or critical hazards.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No known significant effects or critical hazards.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No known significant effects or critical hazards.
		10X aCGH Blocking Agent	May cause respiratory irritation.
		2X HI-RPM Hybridization Buffer	May cause respiratory irritation.
		Exo(-) Klenow	No known significant effects or critical hazards.
		Random Primers	No known significant effects or critical hazards.
		5X gDNA Reaction Buffer	No known significant effects or critical hazards.
		10X dNTP Mix	No known significant effects or critical hazards.
		Cyanine-3-dUTP	No known significant effects or critical hazards.
		Cyanine-5-dUTP	No known significant effects or critical hazards.
		Cot-1 DNA	No known significant effects or critical hazards.
		Alu I	No known significant effects or critical hazards.
		Rsa I	No known significant effects or critical hazards.
		10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
		BSA	No known significant effects or critical hazards.
		Human Reference DNA Male	No known significant effects or critical hazards.
		Human Reference DNA Female	No known significant effects or critical hazards.
		10 SurePrint G3 human CGH arrays, 1x1M	No known significant effects or critical hazards.
<b>Skin contact</b>	:	☑ Nuclease Free Water	No known significant effects or critical hazards.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No known significant effects or critical hazards.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No known significant effects or critical hazards.
		10X aCGH Blocking Agent	Causes skin irritation.
		2X HI-RPM Hybridization Buffer	Causes skin irritation.
		Exo(-) Klenow	No known significant effects or critical hazards.
		Random Primers	No known significant effects or critical hazards.
		5X gDNA Reaction Buffer	May cause an allergic skin reaction.
		10X dNTP Mix	No known significant effects or critical hazards.
		Cyanine-3-dUTP	No known significant effects or critical hazards.
		Cyanine-5-dUTP	No known significant effects or critical hazards.
		Cot-1 DNA	No known significant effects or critical hazards.
		Alu I	No known significant effects or critical hazards.
		Rsa I	No known significant effects or critical hazards.
		10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
		BSA	No known significant effects or critical hazards.
		Human Reference DNA Male	No known significant effects or critical hazards.
		Human Reference DNA Female	No known significant effects or critical hazards.
		10 SurePrint G3 human CGH arrays, 1x1M	No known significant effects or critical hazards.
<b>Ingestion</b>	:	☑ Nuclease Free Water	No known significant effects or critical hazards.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No known significant effects or critical hazards.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No known significant effects or critical hazards.
		10X aCGH Blocking Agent	No known significant effects or critical hazards.
		2X HI-RPM Hybridization Buffer	No known significant effects or critical hazards.
		Exo(-) Klenow	No known significant effects or critical hazards.
		Random Primers	No known significant effects or critical hazards.
		5X gDNA Reaction Buffer	No known significant effects or critical hazards.
		10X dNTP Mix	No known significant effects or critical hazards.
		Cyanine-3-dUTP	No known significant effects or critical hazards.
		Cyanine-5-dUTP	No known significant effects or critical hazards.
		Cot-1 DNA	No known significant effects or critical hazards.
		Alu I	No known significant effects or critical hazards.

## Section 4. First aid measures

Rsa I	No known significant effects or critical hazards.
10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
BSA	No known significant effects or critical hazards.
Human Reference DNA Male	No known significant effects or critical hazards.
Human Reference DNA Female	No known significant effects or critical hazards.
10 SurePrint G3 human CGH arrays, 1x1M	No known significant effects or critical hazards.

### Over-exposure signs/symptoms

#### Eye contact

<ul style="list-style-type: none"> <li>☑ Nuclease Free Water</li> <li>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1</li> <li>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2</li> <li>10X aCGH Blocking Agent</li> </ul>	<p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>Adverse symptoms may include the following: pain or irritation watering redness</p>
2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: pain watering redness
Exo(-) Klenow	Adverse symptoms may include the following: irritation watering redness
<ul style="list-style-type: none"> <li>Random Primers</li> <li>5X gDNA Reaction Buffer</li> <li>10X dNTP Mix</li> <li>Cyanine-3-dUTP</li> <li>Cyanine-5-dUTP</li> <li>Cot-1 DNA</li> <li>Alu I</li> </ul>	<p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>Adverse symptoms may include the following: irritation watering redness</p>
Rsa I	Adverse symptoms may include the following: pain or irritation watering redness
<ul style="list-style-type: none"> <li>10X Restriction Enzyme Buffer</li> <li>BSA</li> <li>Human Reference DNA Male</li> <li>Human Reference DNA Female</li> <li>10 SurePrint G3 human CGH arrays, 1x1M</li> </ul>	<p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p>

#### Inhalation

<ul style="list-style-type: none"> <li>☑ Nuclease Free Water</li> <li>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1</li> <li>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2</li> <li>10X aCGH Blocking Agent</li> </ul>	<p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>Adverse symptoms may include the following: respiratory tract irritation coughing</p>
2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: respiratory tract irritation coughing
<ul style="list-style-type: none"> <li>Exo(-) Klenow</li> <li>Random Primers</li> </ul>	<p>No specific data.</p> <p>No specific data.</p>

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	5X gDNA Reaction Buffer	No specific data.
	10X dNTP Mix	No specific data.
	Cyanine-3-dUTP	No specific data.
	Cyanine-5-dUTP	No specific data.
	Cot-1 DNA	No specific data.
	Alu I	No specific data.
	Rsa I	No specific data.
	10X Restriction Enzyme Buffer	No specific data.
	BSA	No specific data.
	Human Reference DNA Male	No specific data.
	Human Reference DNA Female	No specific data.
	10 SurePrint G3 human CGH arrays, 1x1M	No specific data.
<b>Skin contact</b>	: Nuclease Free Water	No specific data.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
	10X aCGH Blocking Agent	Adverse symptoms may include the following: irritation redness
	2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: pain or irritation redness blistering may occur
	Exo(-) Klenow	No specific data.
	Random Primers	No specific data.
	5X gDNA Reaction Buffer	Adverse symptoms may include the following: irritation redness
	10X dNTP Mix	No specific data.
	Cyanine-3-dUTP	No specific data.
	Cyanine-5-dUTP	No specific data.
	Cot-1 DNA	No specific data.
	Alu I	No specific data.
	Rsa I	No specific data.
	10X Restriction Enzyme Buffer	No specific data.
	BSA	No specific data.
	Human Reference DNA Male	No specific data.
	Human Reference DNA Female	No specific data.
	10 SurePrint G3 human CGH arrays, 1x1M	No specific data.
<b>Ingestion</b>	: Nuclease Free Water	No specific data.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
	10X aCGH Blocking Agent	No specific data.
	2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: stomach pains
	Exo(-) Klenow	No specific data.
	Random Primers	No specific data.
	5X gDNA Reaction Buffer	No specific data.
	10X dNTP Mix	No specific data.
	Cyanine-3-dUTP	No specific data.
	Cyanine-5-dUTP	No specific data.
	Cot-1 DNA	No specific data.
	Alu I	No specific data.
	Rsa I	No specific data.

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10X Restriction Enzyme Buffer	No specific data.
BSA	No specific data.
Human Reference DNA Male	No specific data.
Human Reference DNA Female	No specific data.
10 SurePrint G3 human CGH arrays, 1x1M	No specific data.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

#### Notes to physician

: <input checked="" type="checkbox"/> Nuclease Free Water	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
10X aCGH Blocking Agent	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
2X HI-RPM Hybridization Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Exo(-) Klenow	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Random Primers	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
5X gDNA Reaction Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
10X dNTP Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Cyanine-3-dUTP	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Cyanine-5-dUTP	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Cot-1 DNA	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Alu I	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Rsa I	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
10X Restriction Enzyme Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
BSA	Treat symptomatically. Contact poison treatment

## Section 4. First aid measures

	Human Reference DNA Male	specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Human Reference DNA Female	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	10 SurePrint G3 human CGH arrays, 1x1M	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: Nuclease Free Water	No specific treatment.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific treatment.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific treatment.
	10X aCGH Blocking Agent	No specific treatment.
	2X HI-RPM Hybridization Buffer	No specific treatment.
	Exo(-) Klenow	No specific treatment.
	Random Primers	No specific treatment.
	5X gDNA Reaction Buffer	No specific treatment.
	10X dNTP Mix	No specific treatment.
	Cyanine-3-dUTP	No specific treatment.
	Cyanine-5-dUTP	No specific treatment.
	Cot-1 DNA	No specific treatment.
	Alu I	No specific treatment.
	Rsa I	No specific treatment.
	10X Restriction Enzyme Buffer	No specific treatment.
	BSA	No specific treatment.
	Human Reference DNA Male	No specific treatment.
	Human Reference DNA Female	No specific treatment.
	10 SurePrint G3 human CGH arrays, 1x1M	No specific treatment.
<b>Protection of first-aiders</b>	: Nuclease Free Water	No action shall be taken involving any personal risk or without suitable training.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training.
	10X aCGH Blocking Agent	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	2X HI-RPM Hybridization Buffer	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	Exo(-) Klenow	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Random Primers	No action shall be taken involving any personal risk or without suitable training.



## Section 4. First aid measures

5X gDNA Reaction Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
10X dNTP Mix	No action shall be taken involving any personal risk or without suitable training.
Cyanine-3-dUTP	No action shall be taken involving any personal risk or without suitable training.
Cyanine-5-dUTP	No action shall be taken involving any personal risk or without suitable training.
Cot-1 DNA	No action shall be taken involving any personal risk or without suitable training.
Alu I	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Rsa I	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
10X Restriction Enzyme Buffer	No action shall be taken involving any personal risk or without suitable training.
BSA	No action shall be taken involving any personal risk or without suitable training.
Human Reference DNA Male	No action shall be taken involving any personal risk or without suitable training.
Human Reference DNA Female	No action shall be taken involving any personal risk or without suitable training.
10 SurePrint G3 human CGH arrays, 1x1M	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

☑ Nuclease Free Water	Use an extinguishing agent suitable for the surrounding fire.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Use an extinguishing agent suitable for the surrounding fire.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Use an extinguishing agent suitable for the surrounding fire.
10X aCGH Blocking Agent	Use an extinguishing agent suitable for the surrounding fire.
2X HI-RPM Hybridization Buffer	Use an extinguishing agent suitable for the surrounding fire.
Exo(-) Klenow	Use an extinguishing agent suitable for the surrounding fire.
Random Primers	Use an extinguishing agent suitable for the surrounding fire.
5X gDNA Reaction Buffer	Use an extinguishing agent suitable for the surrounding fire.
10X dNTP Mix	Use an extinguishing agent suitable for the surrounding fire.
Cyanine-3-dUTP	Use an extinguishing agent suitable for the surrounding fire.
Cyanine-5-dUTP	Use an extinguishing agent suitable for the surrounding fire.

## Section 5. Fire-fighting measures

	Cot-1 DNA	surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
	Alu I	Use an extinguishing agent suitable for the surrounding fire.
	Rsa I	Use an extinguishing agent suitable for the surrounding fire.
	10X Restriction Enzyme Buffer	Use an extinguishing agent suitable for the surrounding fire.
	BSA	Use an extinguishing agent suitable for the surrounding fire.
	Human Reference DNA Male	Use an extinguishing agent suitable for the surrounding fire.
	Human Reference DNA Female	Use an extinguishing agent suitable for the surrounding fire.
	10 SurePrint G3 human CGH arrays, 1x1M	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: <input checked="" type="checkbox"/> Nuclease Free Water	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	None known.
	10X aCGH Blocking Agent	None known.
	2X HI-RPM Hybridization Buffer	None known.
	Exo(-) Klenow	None known.
	Random Primers	None known.
	5X gDNA Reaction Buffer	None known.
	10X dNTP Mix	None known.
	Cyanine-3-dUTP	None known.
	Cyanine-5-dUTP	None known.
	Cot-1 DNA	None known.
	Alu I	None known.
	Rsa I	None known.
	10X Restriction Enzyme Buffer	None known.
	BSA	None known.
	Human Reference DNA Male	None known.
Human Reference DNA Female	None known.	
10 SurePrint G3 human CGH arrays, 1x1M	None known.	

### 5.2 Special hazards arising from the substance or mixture

<b>Specific hazards arising from the chemical</b>	: <input checked="" type="checkbox"/> Nuclease Free Water	In a fire or if heated, a pressure increase will occur and the container may burst.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	10X aCGH Blocking Agent	No specific fire or explosion hazard.
	2X HI-RPM Hybridization Buffer	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	Exo(-) Klenow	In a fire or if heated, a pressure increase will occur and the container may burst.
	Random Primers	In a fire or if heated, a pressure increase will occur and the container may burst.

## Section 5. Fire-fighting measures

	5X gDNA Reaction Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	10X dNTP Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	Cyanine-3-dUTP	In a fire or if heated, a pressure increase will occur and the container may burst.
	Cyanine-5-dUTP	In a fire or if heated, a pressure increase will occur and the container may burst.
	Cot-1 DNA	In a fire or if heated, a pressure increase will occur and the container may burst.
	Alu I	In a fire or if heated, a pressure increase will occur and the container may burst.
	Rsa I	In a fire or if heated, a pressure increase will occur and the container may burst.
	10X Restriction Enzyme Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	BSA	In a fire or if heated, a pressure increase will occur and the container may burst.
	Human Reference DNA Male	In a fire or if heated, a pressure increase will occur and the container may burst.
	Human Reference DNA Female	In a fire or if heated, a pressure increase will occur and the container may burst.
	10 SurePrint G3 human CGH arrays, 1x1M	No specific fire or explosion hazard.
<b>Hazardous thermal decomposition products</b>	<input checked="" type="checkbox"/> Nuclease Free Water	No specific data.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
	10X aCGH Blocking Agent	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides halogenated compounds
	2X HI-RPM Hybridization Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
	Exo(-) Klenow	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Random Primers	No specific data.
	5X gDNA Reaction Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
	10X dNTP Mix	No specific data.
	Cyanine-3-dUTP	No specific data.
	Cyanine-5-dUTP	No specific data.
	Cot-1 DNA	No specific data.

## Section 5. Fire-fighting measures

Alu I	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Rsa I	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
10X Restriction Enzyme Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
BSA	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Human Reference DNA Male Human Reference DNA Female 10 SurePrint G3 human CGH arrays, 1x1M	No specific data. No specific data. Decomposition products may include the following materials: metal oxide/oxides

### 5.3 Advice for firefighters

#### Special protective actions for fire-fighters

☑ Nuclease Free Water	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
10X aCGH Blocking Agent	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
2X HI-RPM Hybridization Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Exo(-) Klenow	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Random Primers	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
5X gDNA Reaction Buffer	Promptly isolate the scene by removing all persons

## Section 5. Fire-fighting measures

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

10X dNTP Mix

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Cyanine-3-dUTP

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Cyanine-5-dUTP

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Cot-1 DNA

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Alu I

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Rsa I

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

10X Restriction Enzyme Buffer

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

BSA

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Human Reference DNA Male

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Human Reference DNA Female

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

10 SurePrint G3 human CGH arrays, 1x1M

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

### Special protective equipment for fire-fighters

:  Nuclease Free Water

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 5. Fire-fighting measures

10X aCGH Blocking Agent	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
2X HI-RPM Hybridization Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Exo(-) Klenow	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Random Primers	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
5X gDNA Reaction Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
10X dNTP Mix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Cyanine-3-dUTP	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Cyanine-5-dUTP	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Cot-1 DNA	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Alu I	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Rsa I	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
10X Restriction Enzyme Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
BSA	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Human Reference DNA Male	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Human Reference DNA Female	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

## Section 5. Fire-fighting measures

10 SurePrint G3 human CGH arrays, 1x1M	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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## Section 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

: Nuclease Free Water

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

10X aCGH Blocking Agent

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

2X HI-RPM Hybridization Buffer

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Exo(-) Klenow

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Random Primers

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

## Section 6. Accidental release measures

5X gDNA Reaction Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
10X dNTP Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
Cyanine-3-dUTP	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
Cyanine-5-dUTP	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
Cot-1 DNA	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
Alu I	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Rsa I	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
10X Restriction Enzyme Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
BSA	No action shall be taken involving any personal risk or without suitable training. Evacuate




## Section 6. Accidental release measures

Human Reference DNA Male	surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
Human Reference DNA Female	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
10 SurePrint G3 human CGH arrays, 1x1M	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
<b>For emergency responders :</b> Nuclease Free Water	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
10X aCGH Blocking Agent	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
2X HI-RPM Hybridization Buffer	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Exo(-) Klenow	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Random Primers	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
5X gDNA Reaction Buffer	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
10X dNTP Mix	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Cyanine-3-dUTP	If specialized clothing is required to deal with the

## Section 6. Accidental release measures

Cyanine-5-dUTP	spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Cot-1 DNA	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Alu I	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Rsa I	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
10X Restriction Enzyme Buffer	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
BSA	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Human Reference DNA Male	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Human Reference DNA Female	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
10 SurePrint G3 human CGH arrays, 1x1M	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

:  Nuclease Free Water	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
10X aCGH Blocking Agent	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

## Section 6. Accidental release measures

2X HI-RPM Hybridization Buffer	caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Exo(-) Klenow	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Random Primers	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
5X gDNA Reaction Buffer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
10X dNTP Mix	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Cyanine-3-dUTP	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Cyanine-5-dUTP	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Cot-1 DNA	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Alu I	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Rsa I	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
10X Restriction Enzyme Buffer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Section 6. Accidental release measures

BSA	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Human Reference DNA Male	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Human Reference DNA Female	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
10 SurePrint G3 human CGH arrays, 1x1M	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

**Methods for cleaning up** :  Nuclease Free Water

	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
10X aCGH Blocking Agent	Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
2X HI-RPM Hybridization Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Exo(-) Klenow	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Random Primers	Stop leak if without risk. Move containers from spill

## Section 6. Accidental release measures

	area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
5X gDNA Reaction Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
10X dNTP Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Cyanine-3-dUTP	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Cyanine-5-dUTP	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Cot-1 DNA	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Alu I	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Rsa I	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
10X Restriction Enzyme Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
BSA	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 6. Accidental release measures

Human Reference DNA Male	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Human Reference DNA Female	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
10 SurePrint G3 human CGH arrays, 1x1M	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	:	<p>Nuclease Free Water</p> <p>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1</p> <p>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2</p> <p>10X aCGH Blocking Agent</p> <p>2X HI-RPM Hybridization Buffer</p> <p>Exo(-) Klenow</p> <p>Random Primers</p> <p>5X gDNA Reaction Buffer</p>	<p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</p> <p>Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</p> <p>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in</p>
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## Section 7. Handling and storage

any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

10X dNTP Mix

Put on appropriate personal protective equipment (see Section 8).

Cyanine-3-dUTP

Put on appropriate personal protective equipment (see Section 8).

Cyanine-5-dUTP

Put on appropriate personal protective equipment (see Section 8).

Cot-1 DNA

Put on appropriate personal protective equipment (see Section 8).

Alu I

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Rsa I

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

10X Restriction Enzyme Buffer

Put on appropriate personal protective equipment (see Section 8).

BSA

Put on appropriate personal protective equipment (see Section 8).

Human Reference DNA Male

Put on appropriate personal protective equipment (see Section 8).

Human Reference DNA Female

Put on appropriate personal protective equipment (see Section 8).

10 SurePrint G3 human CGH arrays, 1x1M

Put on appropriate personal protective equipment (see Section 8).

### Advice on general occupational hygiene

:  Nuclease Free Water

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove

## Section 7. Handling and storage

10X aCGH Blocking Agent	contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
2X HI-RPM Hybridization Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Exo(-) Klenow	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Random Primers	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
5X gDNA Reaction Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
10X dNTP Mix	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Cyanine-3-dUTP	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Cyanine-5-dUTP	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.



## Section 7. Handling and storage

Cot-1 DNA	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Alu I	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Rsa I	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
10X Restriction Enzyme Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
BSA	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Human Reference DNA Male	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Human Reference DNA Female	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
10 SurePrint G3 human CGH arrays, 1x1M	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## Section 7. Handling and storage

### 7.2 Conditions for safe storage, including any incompatibilities

: Nuclease Free Water

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

10X aCGH Blocking Agent

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

2X HI-RPM Hybridization Buffer

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Exo(-) Klenow

Store in accordance with local regulations. Store in original container protected from direct sunlight in a

## Section 7. Handling and storage

Random Primers

dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

5X gDNA Reaction Buffer

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

10X dNTP Mix

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Cyanine-3-dUTP

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Cyanine-5-dUTP

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been

## Section 7. Handling and storage

Cot-1 DNA

opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Alu I

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Rsa I

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

10X Restriction Enzyme Buffer

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

BSA

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for

## Section 7. Handling and storage

Human Reference DNA Male	incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Human Reference DNA Female	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
10 SurePrint G3 human CGH arrays, 1x1M	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

#### Recommendations

: <input checked="" type="checkbox"/> Nuclease Free Water	Industrial applications, Professional applications.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Industrial applications, Professional applications.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Industrial applications, Professional applications.
10X aCGH Blocking Agent	Industrial applications, Professional applications.
2X HI-RPM Hybridization Buffer	Industrial applications, Professional applications.
Exo(-) Klenow	Industrial applications, Professional applications.
Random Primers	Industrial applications, Professional applications.
5X gDNA Reaction Buffer	Industrial applications, Professional applications.
10X dNTP Mix	Industrial applications, Professional applications.
Cyanine-3-dUTP	Industrial applications, Professional applications.
Cyanine-5-dUTP	Industrial applications, Professional applications.
Cot-1 DNA	Industrial applications, Professional applications.
Alu I	Industrial applications, Professional applications.
Rsa I	Industrial applications, Professional applications.
10X Restriction Enzyme Buffer	Industrial applications, Professional applications.
BSA	Industrial applications, Professional applications.
Human Reference DNA Male	Industrial applications, Professional applications.
Human Reference DNA Female	Industrial applications, Professional applications.
10 SurePrint G3 human CGH arrays, 1x1M	Industrial applications, Professional applications.

## Section 7. Handling and storage

<b>Industrial sector specific solutions</b>	<b>Nuclease Free Water</b>	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not applicable.
	10X aCGH Blocking Agent	Not applicable.
	2X HI-RPM Hybridization Buffer	Not applicable.
	Exo(-) Klenow	Not applicable.
	Random Primers	Not applicable.
	5X gDNA Reaction Buffer	Not applicable.
	10X dNTP Mix	Not applicable.
	Cyanine-3-dUTP	Not applicable.
	Cyanine-5-dUTP	Not applicable.
	Cot-1 DNA	Not applicable.
	Alu I	Not applicable.
	Rsa I	Not applicable.
	10X Restriction Enzyme Buffer	Not applicable.
	BSA	Not applicable.
	Human Reference DNA Male	Not applicable.
	Human Reference DNA Female	Not applicable.
	10 SurePrint G3 human CGH arrays, 1x1M	Not applicable.

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
<b>Nuclease Free Water</b> Water	None.
<b>10X aCGH Blocking Agent</b> Trometamol 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	None. None.
<b>2X HI-RPM Hybridization Buffer</b> Lithium chloride Polyoxyethylene octyl phenyl ether Lithium dodecyl sulphate Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether	None. None. None. None.
<b>Exo(-) Klenow</b> Glycerol	<b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust <b>OSHA PEL (United States, 6/2016).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
<b>5X gDNA Reaction Buffer</b> 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride 2-Mercaptoethanol	None. <b>AIHA WEEL (United States, 10/2011).</b> <b>Absorbed through skin.</b> TWA: 0.2 ppm 8 hours.

## Section 8. Exposure controls/personal protection

<p><b>Alu I</b> Glycerol</p>	<p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust <b>OSHA PEL (United States, 6/2016).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust</p>
<p><b>Rsa I</b> Glycerol</p>	<p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust <b>OSHA PEL (United States, 6/2016).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust</p>
<p>Sodium chloride</p>	<p>None.</p>
<p><b>10X Restriction Enzyme Buffer</b> Sodium chloride 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride</p>	<p>None. None.</p>
<p><b>10 SurePrint G3 human CGH arrays, 1x1M</b> Sodium silicate</p>	<p>None.</p>

### 8.2 Exposure controls

#### Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

#### Skin protection

## Section 8. Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	:	<input checked="" type="checkbox"/> Nuclease Free Water	Liquid.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Liquid.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Liquid.
		10X aCGH Blocking Agent	Solid. [lyophilized pellets]
		2X HI-RPM Hybridization Buffer	Liquid.
		Exo(-) Klenow	Liquid.
		Random Primers	Liquid.
		5X gDNA Reaction Buffer	Liquid.
		10X dNTP Mix	Liquid.
		Cyanine-3-dUTP	Liquid.
		Cyanine-5-dUTP	Liquid.
		Cot-1 DNA	Liquid.
		Alu I	Liquid.
		Rsa I	Liquid.
		10X Restriction Enzyme Buffer	Liquid.
		BSA	Liquid.
		Human Reference DNA Male	Liquid.
		Human Reference DNA Female	Liquid.
		10 SurePrint G3 human CGH arrays, 1x1M	Solid. [glass slide]
	<b>Color</b>	:	<input checked="" type="checkbox"/> Nuclease Free Water
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
		10X aCGH Blocking Agent	Not available.
		2X HI-RPM Hybridization Buffer	Not available.
		Exo(-) Klenow	Not available.
		Random Primers	Not available.
		5X gDNA Reaction Buffer	Not available.
		10X dNTP Mix	Not available.
		Cyanine-3-dUTP	Not available.
		Cyanine-5-dUTP	Not available.



## Section 9. Physical and chemical properties

	Cot-1 DNA	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	Human Reference DNA Male	Not available.
	Human Reference DNA Female	Not available.
	10 SurePrint G3 human CGH arrays, 1x1M	Not available.
<b>Odor</b>	: Nuclease Free Water	Odorless.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	10X aCGH Blocking Agent	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	Exo(-) Klenow	Not available.
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	10X dNTP Mix	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	Cot-1 DNA	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	Human Reference DNA Male	Not available.
	Human Reference DNA Female	Not available.
	10 SurePrint G3 human CGH arrays, 1x1M	Not available.
<b>Odor threshold</b>	: Nuclease Free Water	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	10X aCGH Blocking Agent	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	Exo(-) Klenow	Not available.
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	10X dNTP Mix	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	Cot-1 DNA	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	Human Reference DNA Male	Not available.
	Human Reference DNA Female	Not available.
	10 SurePrint G3 human CGH arrays, 1x1M	Not available.
<b>pH</b>	:	

## Section 9. Physical and chemical properties

☑ Nuclease Free Water	7
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	8.2 to 8.6
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	8 to 8.4
10X aCGH Blocking Agent	Not available.
2X HI-RPM Hybridization Buffer	6.1
Exo(-) Klenow	7.5
Random Primers	8
5X gDNA Reaction Buffer	7.5
10X dNTP Mix	8
Cyanine-3-dUTP	Not available.
Cyanine-5-dUTP	Not available.
Cot-1 DNA	7.4
Alu I	7.4
Rsa I	7.4
10X Restriction Enzyme Buffer	7.9
BSA	Not available.
Human Reference DNA Male	8
Human Reference DNA Female	8
10 SurePrint G3 human CGH arrays, 1x1M	Not available.

### Melting point

☑ Nuclease Free Water	0°C (32°F)
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	0°C (32°F)
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	0°C (32°F)
10X aCGH Blocking Agent	Not available.
2X HI-RPM Hybridization Buffer	Not available.
Exo(-) Klenow	Not available.
Random Primers	0°C (32°F)
5X gDNA Reaction Buffer	0°C (32°F)
10X dNTP Mix	0°C (32°F)
Cyanine-3-dUTP	0°C (32°F)
Cyanine-5-dUTP	0°C (32°F)
Cot-1 DNA	0°C (32°F)
Alu I	Not available.
Rsa I	Not available.
10X Restriction Enzyme Buffer	Not available.
BSA	0°C (32°F)
Human Reference DNA Male	0°C (32°F)
Human Reference DNA Female	0°C (32°F)
10 SurePrint G3 human CGH arrays, 1x1M	Not available.

### Boiling point

☑ Nuclease Free Water	100°C (212°F)
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	100°C (212°F)
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	100°C (212°F)
10X aCGH Blocking Agent	Not available.
2X HI-RPM Hybridization Buffer	Not available.
Exo(-) Klenow	Not available.
Random Primers	100°C (212°F)
5X gDNA Reaction Buffer	100°C (212°F)
10X dNTP Mix	100°C (212°F)
Cyanine-3-dUTP	100°C (212°F)
Cyanine-5-dUTP	100°C (212°F)
Cot-1 DNA	100°C (212°F)

## Section 9. Physical and chemical properties

	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	100°C (212°F)
	Human Reference DNA Male	100°C (212°F)
	Human Reference DNA Female	100°C (212°F)
	10 SurePrint G3 human CGH arrays, 1x1M	Not available.
<b>Flash point</b>	: Nuclease Free Water	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	10X aCGH Blocking Agent	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	Exo(-) Klenow	Not available.
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	10X dNTP Mix	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	Cot-1 DNA	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	Human Reference DNA Male	Not available.
	Human Reference DNA Female	Not available.
	10 SurePrint G3 human CGH arrays, 1x1M	Not available.
<b>Evaporation rate</b>	: Nuclease Free Water	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	10X aCGH Blocking Agent	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	Exo(-) Klenow	Not available.
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	10X dNTP Mix	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	Cot-1 DNA	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	Human Reference DNA Male	Not available.
	Human Reference DNA Female	Not available.
	10 SurePrint G3 human CGH arrays, 1x1M	Not available.

## Section 9. Physical and chemical properties

<b>Flammability (solid, gas)</b>	: Nuclease Free Water Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 10X aCGH Blocking Agent 2X HI-RPM Hybridization Buffer Exo(-) Klenow Random Primers 5X gDNA Reaction Buffer 10X dNTP Mix Cyanine-3-dUTP Cyanine-5-dUTP Cot-1 DNA Alu I Rsa I 10X Restriction Enzyme Buffer BSA Human Reference DNA Male Human Reference DNA Female 10 SurePrint G3 human CGH arrays, 1x1M	Not applicable. Not applicable. Not applicable. Not available. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not available.
<b>Lower and upper explosive (flammable) limits</b>	: Nuclease Free Water Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 10X aCGH Blocking Agent 2X HI-RPM Hybridization Buffer Exo(-) Klenow Random Primers 5X gDNA Reaction Buffer 10X dNTP Mix Cyanine-3-dUTP Cyanine-5-dUTP Cot-1 DNA Alu I Rsa I 10X Restriction Enzyme Buffer BSA Human Reference DNA Male Human Reference DNA Female 10 SurePrint G3 human CGH arrays, 1x1M	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
<b>Vapor pressure</b>	: Nuclease Free Water Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 10X aCGH Blocking Agent 2X HI-RPM Hybridization Buffer Exo(-) Klenow Random Primers 5X gDNA Reaction Buffer 10X dNTP Mix Cyanine-3-dUTP Cyanine-5-dUTP Cot-1 DNA	3.2 kPa (23.8 mm Hg) [room temperature] Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.

## Section 9. Physical and chemical properties

	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	Human Reference DNA Male	Not available.
	Human Reference DNA Female	Not available.
	10 SurePrint G3 human CGH arrays, 1x1M	Not available.
<b>Vapor density</b>	: Nuclease Free Water	0.62 [Air = 1]
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	10X aCGH Blocking Agent	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	Exo(-) Klenow	Not available.
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	10X dNTP Mix	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	Cot-1 DNA	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	Human Reference DNA Male	Not available.
	Human Reference DNA Female	Not available.
	10 SurePrint G3 human CGH arrays, 1x1M	Not available.
<b>Relative density</b>	: Nuclease Free Water	1
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	10X aCGH Blocking Agent	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	Exo(-) Klenow	Not available.
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	10X dNTP Mix	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	Cot-1 DNA	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	Human Reference DNA Male	Not available.
	Human Reference DNA Female	Not available.
	10 SurePrint G3 human CGH arrays, 1x1M	Not available.

## Section 9. Physical and chemical properties

<b>Solubility</b>	:	☑ Nuclease Free Water	Easily soluble in the following materials: cold water and hot water.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Easily soluble in the following materials: cold water and hot water.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Easily soluble in the following materials: cold water and hot water.
		10X aCGH Blocking Agent	Soluble in the following materials: cold water and hot water.
		2X HI-RPM Hybridization Buffer	Soluble in the following materials: cold water and hot water.
		Exo(-) Klenow	Soluble in the following materials: cold water and hot water.
		Random Primers	Easily soluble in the following materials: cold water and hot water.
		5X gDNA Reaction Buffer	Easily soluble in the following materials: cold water and hot water.
		10X dNTP Mix	Easily soluble in the following materials: cold water and hot water.
		Cyanine-3-dUTP	Easily soluble in the following materials: cold water and hot water.
		Cyanine-5-dUTP	Easily soluble in the following materials: cold water and hot water.
		Cot-1 DNA	Easily soluble in the following materials: cold water and hot water.
		Alu I	Soluble in the following materials: cold water and hot water.
		Rsa I	Soluble in the following materials: cold water and hot water.
		10X Restriction Enzyme Buffer	Easily soluble in the following materials: cold water and hot water.
		BSA	Easily soluble in the following materials: cold water and hot water.
		Human Reference DNA Male	Easily soluble in the following materials: cold water and hot water.
		Human Reference DNA Female	Easily soluble in the following materials: cold water and hot water.
		10 SurePrint G3 human CGH arrays, 1x1M	Insoluble in the following materials: cold water and hot water.
	<b>Partition coefficient: n-octanol/water</b>	:	☑ Nuclease Free Water
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
		10X aCGH Blocking Agent	Not available.
		2X HI-RPM Hybridization Buffer	Not available.
		Exo(-) Klenow	Not available.
		Random Primers	Not available.
		5X gDNA Reaction Buffer	Not available.
		10X dNTP Mix	Not available.
		Cyanine-3-dUTP	Not available.
		Cyanine-5-dUTP	Not available.
		Cot-1 DNA	Not available.
		Alu I	Not available.
		Rsa I	Not available.
		10X Restriction Enzyme Buffer	Not available.
		BSA	Not available.
		Human Reference DNA Male	Not available.
	Human Reference DNA Female	Not available.	

## Section 9. Physical and chemical properties

	10 SurePrint G3 human CGH arrays, 1x1M	Not available.
<b>Auto-ignition temperature</b>	: Nuclease Free Water	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	10X aCGH Blocking Agent	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	Exo(-) Klenow	Not available.
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	10X dNTP Mix	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	Cot-1 DNA	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	Human Reference DNA Male	Not available.
	Human Reference DNA Female	Not available.
	10 SurePrint G3 human CGH arrays, 1x1M	Not available.
<b>Decomposition temperature</b>	: Nuclease Free Water	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	10X aCGH Blocking Agent	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	Exo(-) Klenow	Not available.
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	10X dNTP Mix	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	Cot-1 DNA	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	Human Reference DNA Male	Not available.
	Human Reference DNA Female	Not available.
	10 SurePrint G3 human CGH arrays, 1x1M	Not available.
<b>Viscosity</b>	: Nuclease Free Water	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	10X aCGH Blocking Agent	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	Exo(-) Klenow	Not available.
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	10X dNTP Mix	Not available.

## Section 9. Physical and chemical properties

Cyanine-3-dUTP	Not available.
Cyanine-5-dUTP	Not available.
Cot-1 DNA	Not available.
Alu I	Not available.
Rsa I	Not available.
10X Restriction Enzyme Buffer	Not available.
BSA	Not available.
Human Reference DNA Male	Not available.
Human Reference DNA Female	Not available.
10 SurePrint G3 human CGH arrays, 1x1M	Not available.

## Section 10. Stability and reactivity

### 10.1 Reactivity

<ul style="list-style-type: none"> <li>☑ Nuclease Free Water</li> <li>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1</li> <li>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2</li> <li>10X aCGH Blocking Agent</li> <li>2X HI-RPM Hybridization Buffer</li> <li>Exo(-) Klenow</li> <li>Random Primers</li> <li>5X gDNA Reaction Buffer</li> <li>10X dNTP Mix</li> <li>Cyanine-3-dUTP</li> <li>Cyanine-5-dUTP</li> <li>Cot-1 DNA</li> <li>Alu I</li> <li>Rsa I</li> <li>10X Restriction Enzyme Buffer</li> <li>BSA</li> <li>Human Reference DNA Male</li> <li>Human Reference DNA Female</li> <li>10 SurePrint G3 human CGH arrays, 1x1M</li> </ul>	<ul style="list-style-type: none"> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>No specific test data related to reactivity available for this product or its ingredients.</li> </ul>
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## Section 10. Stability and reactivity


<b>10.2 Chemical stability</b>	: <input checked="" type="checkbox"/> Nuclease Free Water	The product is stable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	The product is stable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	The product is stable.
	10X aCGH Blocking Agent	The product is stable.
	2X HI-RPM Hybridization Buffer	The product is stable.
	Exo(-) Klenow	The product is stable.
	Random Primers	The product is stable.
	5X gDNA Reaction Buffer	The product is stable.
	10X dNTP Mix	The product is stable.
	Cyanine-3-dUTP	The product is stable.
	Cyanine-5-dUTP	The product is stable.
	Cot-1 DNA	The product is stable.
	Alu I	The product is stable.
	Rsa I	The product is stable.
	10X Restriction Enzyme Buffer	The product is stable.
	BSA	The product is stable.
	Human Reference DNA Male	The product is stable.
	Human Reference DNA Female	The product is stable.
	10 SurePrint G3 human CGH arrays, 1x1M	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: <input checked="" type="checkbox"/> Nuclease Free Water	Under normal conditions of storage and use, hazardous reactions will not occur.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Under normal conditions of storage and use, hazardous reactions will not occur.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Under normal conditions of storage and use, hazardous reactions will not occur.
	10X aCGH Blocking Agent	Under normal conditions of storage and use, hazardous reactions will not occur.
	2X HI-RPM Hybridization Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Exo(-) Klenow	Under normal conditions of storage and use, hazardous reactions will not occur.
	Random Primers	Under normal conditions of storage and use, hazardous reactions will not occur.
	5X gDNA Reaction Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	10X dNTP Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	Cyanine-3-dUTP	Under normal conditions of storage and use, hazardous reactions will not occur.
	Cyanine-5-dUTP	Under normal conditions of storage and use, hazardous reactions will not occur.
	Cot-1 DNA	Under normal conditions of storage and use, hazardous reactions will not occur.
	Alu I	Under normal conditions of storage and use, hazardous reactions will not occur.
	Rsa I	Under normal conditions of storage and use, hazardous reactions will not occur.
	10X Restriction Enzyme Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	BSA	Under normal conditions of storage and use, hazardous reactions will not occur.
	Human Reference DNA Male	Under normal conditions of storage and use, hazardous reactions will not occur.
	Human Reference DNA Female	Under normal conditions of storage and use,

**Section 10. Stability and reactivity**

	10 SurePrint G3 human CGH arrays, 1x1M	hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	<p>☒ Nuclease Free Water</p> <p>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1</p> <p>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2</p> <p>10X aCGH Blocking Agent</p> <p>2X HI-RPM Hybridization Buffer</p> <p>Exo(-) Klenow</p> <p>Random Primers</p> <p>5X gDNA Reaction Buffer</p> <p>10X dNTP Mix</p> <p>Cyanine-3-dUTP</p> <p>Cyanine-5-dUTP</p> <p>Cot-1 DNA</p> <p>Alu I</p> <p>Rsa I</p> <p>10X Restriction Enzyme Buffer</p> <p>BSA</p> <p>Human Reference DNA Male</p> <p>Human Reference DNA Female</p> <p>10 SurePrint G3 human CGH arrays, 1x1M</p>	<p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p> <p>No specific data.</p>
<b>10.5 Incompatible materials</b>	<p>☒ Nuclease Free Water</p> <p>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1</p> <p>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2</p> <p>10X aCGH Blocking Agent</p> <p>2X HI-RPM Hybridization Buffer</p> <p>Exo(-) Klenow</p> <p>Random Primers</p> <p>5X gDNA Reaction Buffer</p> <p>10X dNTP Mix</p> <p>Cyanine-3-dUTP</p> <p>Cyanine-5-dUTP</p> <p>Cot-1 DNA</p> <p>Alu I</p> <p>Rsa I</p> <p>10X Restriction Enzyme Buffer</p> <p>BSA</p>	<p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p>

## Section 10. Stability and reactivity

### 10.6 Hazardous decomposition products

Human Reference DNA Male	materials. May react or be incompatible with oxidizing materials.
Human Reference DNA Female	May react or be incompatible with oxidizing materials.
10 SurePrint G3 human CGH arrays, 1x1M	May react or be incompatible with oxidizing materials.
<b>10.6 Hazardous decomposition products</b> :  Nuclease Free Water	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10X aCGH Blocking Agent	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
2X HI-RPM Hybridization Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Exo(-) Klenow	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Random Primers	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
5X gDNA Reaction Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10X dNTP Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Cyanine-3-dUTP	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Cyanine-5-dUTP	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Cot-1 DNA	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Alu I	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Rsa I	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10X Restriction Enzyme Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
BSA	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Human Reference DNA Male	Under normal conditions of storage and use, hazardous decomposition products should not be

## Section 10. Stability and reactivity

Human Reference DNA Female	produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10 SurePrint G3 human CGH arrays, 1x1M	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>10X aCGH Blocking Agent</b> Trometamol	LD50 Dermal LD50 Oral	Rat Rat	>5000 mg/kg 5000 mg/kg	- -
<b>2X HI-RPM Hybridization Buffer</b> Lithium chloride	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Dermal LD50 Oral LD50 Oral	Rat Rabbit Rat Rat Rat	>5.57 mg/l 1629 mg/kg 1488 mg/kg 526 mg/kg 1800 mg/kg	4 hours - - - -
Polyoxyethylene octyl phenyl ether	LD50 Oral	Rat	>5000 mg/kg	-
Lithium dodecyl sulphate	LD50 Oral	Rat	>5000 mg/kg	-
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether	LC50 Inhalation Dusts and mists  LD50 Dermal LD50 Oral	Rat Rat  Rabbit Rat	1.08 mg/l  1550 mg/kg 3200 mg/kg	4 hours  - -
<b>Exo(-) Klenow</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>5X gDNA Reaction Buffer</b> 2-Mercaptoethanol	LD50 Dermal LD50 Oral	Rabbit Rat	167.1 mg/kg 244 mg/kg	- -
<b>Alu I</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>Rsa I</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
<b>10X Restriction Enzyme Buffer</b> Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

#### Irritation/Corrosion

## Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>10X aCGH Blocking Agent</b> Trometamol	Skin - Moderate irritant Skin - Severe irritant	Rabbit Rabbit	- -	25 Percent 500 milligrams	- -
<b>2X HI-RPM Hybridization Buffer</b> Lithium chloride	Eyes - Moderate irritant Skin - Severe irritant	Rabbit Rabbit	- -	24 hours 100 milligrams 24 hours 500 milligrams	- -
Polyoxyethylene octyl phenyl ether	Eyes - Moderate irritant Skin - Mild irritant	Rabbit Rabbit	- -	24 hours 10 microliters 24 hours 500 microliters	- -
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-(trimethylsilyloxy)-1-disiloxanyl]propyl] ether	Skin - Mild irritant Eyes - Severe irritant	Rabbit Rabbit	- -	- -	- -
<b>Exo(-) Klenow</b> Glycerol	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit	- -	24 hours 500 milligrams 24 hours 500 milligrams	- -
<b>5X gDNA Reaction Buffer</b> 2-Mercaptoethanol	Eyes - Severe irritant	Rabbit	-	2 milligrams	-
<b>Alu I</b> Glycerol	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit	- -	24 hours 500 milligrams 24 hours 500 milligrams	- -
<b>Rsa I</b> Glycerol	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit	- -	24 hours 500 milligrams 24 hours 500 milligrams	- -
Sodium chloride	Eyes - Moderate irritant Eyes - Moderate irritant Skin - Mild irritant	Rabbit Rabbit Rabbit	- - -	24 hours 100 milligrams 10 milligrams 24 hours 500 milligrams	- - -
<b>10X Restriction Enzyme Buffer</b> Sodium chloride	Eyes - Moderate irritant Eyes - Moderate irritant Skin - Mild irritant	Rabbit Rabbit Rabbit	- - -	24 hours 100 milligrams 10 milligrams 24 hours 500 milligrams	- - -

### Sensitization

## Section 11. Toxicological information

Product/ingredient name	Route of exposure	Species	Result
<b>2X HI-RPM Hybridization Buffer</b> Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether	skin	Guinea pig	Not sensitizing

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
<b>10X aCGH Blocking Agent</b> Trometamol	Category 3	Not applicable.	Respiratory tract irritation
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
<b>2X HI-RPM Hybridization Buffer</b> Lithium chloride	Category 3	Not applicable.	Respiratory tract irritation
Polyoxyethylene octyl phenyl ether	Category 3	Not applicable.	Respiratory tract irritation
Lithium dodecyl sulphate	Category 3	Not applicable.	Respiratory tract irritation
<b>5X gDNA Reaction Buffer</b> 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
2-Mercaptoethanol	Category 3	Not applicable.	Respiratory tract irritation
<b>10X Restriction Enzyme Buffer</b> 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
<b>10 SurePrint G3 human CGH arrays, 1x1M</b> Sodium silicate	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

## Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
<b>2X HI-RPM Hybridization Buffer</b> Lithium chloride	Category 2	Not determined	cardiovascular system, central nervous system (CNS), kidneys and thyroid

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

<input checked="" type="checkbox"/> Nuclease Free Water	Not available.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
10X aCGH Blocking Agent	Routes of entry anticipated: Oral, Dermal, Inhalation.
2X HI-RPM Hybridization Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
Exo(-) Klenow	Routes of entry anticipated: Oral, Dermal, Inhalation.
Random Primers	Not available.
5X gDNA Reaction Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
10X dNTP Mix	Not available.
Cyanine-3-dUTP	Not available.
Cyanine-5-dUTP	Not available.
Cot-1 DNA	Not available.
Alu I	Routes of entry anticipated: Oral, Dermal, Inhalation.
Rsa I	Routes of entry anticipated: Oral, Dermal, Inhalation.
10X Restriction Enzyme Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
BSA	Not available.
Human Reference DNA Male	Not available.
Human Reference DNA Female	Not available.
10 SurePrint G3 human CGH arrays, 1x1M	Not available.

### Potential acute health effects

#### Eye contact

<input checked="" type="checkbox"/> Nuclease Free Water	No known significant effects or critical hazards.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No known significant effects or critical hazards.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No known significant effects or critical hazards.
10X aCGH Blocking Agent	Causes serious eye irritation.
2X HI-RPM Hybridization Buffer	Causes serious eye damage.
Exo(-) Klenow	Causes eye irritation.
Random Primers	No known significant effects or critical hazards.
5X gDNA Reaction Buffer	No known significant effects or critical hazards.
10X dNTP Mix	No known significant effects or critical hazards.
Cyanine-3-dUTP	No known significant effects or critical hazards.
Cyanine-5-dUTP	No known significant effects or critical hazards.
Cot-1 DNA	No known significant effects or critical hazards.
Alu I	Causes eye irritation.

## Section 11. Toxicological information

	Rsa I	Causes serious eye irritation.
	10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
	BSA	No known significant effects or critical hazards.
	Human Reference DNA Male	No known significant effects or critical hazards.
	Human Reference DNA Female	No known significant effects or critical hazards.
	10 SurePrint G3 human CGH arrays, 1x1M	No known significant effects or critical hazards.
<b>Inhalation</b>	: Nuclease Free Water	No known significant effects or critical hazards.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No known significant effects or critical hazards.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No known significant effects or critical hazards.
	10X aCGH Blocking Agent	May cause respiratory irritation.
	2X HI-RPM Hybridization Buffer	May cause respiratory irritation.
	Exo(-) Klenow	No known significant effects or critical hazards.
	Random Primers	No known significant effects or critical hazards.
	5X gDNA Reaction Buffer	No known significant effects or critical hazards.
	10X dNTP Mix	No known significant effects or critical hazards.
	Cyanine-3-dUTP	No known significant effects or critical hazards.
	Cyanine-5-dUTP	No known significant effects or critical hazards.
	Cot-1 DNA	No known significant effects or critical hazards.
	Alu I	No known significant effects or critical hazards.
	Rsa I	No known significant effects or critical hazards.
	10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
	BSA	No known significant effects or critical hazards.
	Human Reference DNA Male	No known significant effects or critical hazards.
	Human Reference DNA Female	No known significant effects or critical hazards.
	10 SurePrint G3 human CGH arrays, 1x1M	No known significant effects or critical hazards.
<b>Skin contact</b>	: Nuclease Free Water	No known significant effects or critical hazards.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No known significant effects or critical hazards.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No known significant effects or critical hazards.
	10X aCGH Blocking Agent	Causes skin irritation.
	2X HI-RPM Hybridization Buffer	Causes skin irritation.
	Exo(-) Klenow	No known significant effects or critical hazards.
	Random Primers	No known significant effects or critical hazards.
	5X gDNA Reaction Buffer	May cause an allergic skin reaction.
	10X dNTP Mix	No known significant effects or critical hazards.
	Cyanine-3-dUTP	No known significant effects or critical hazards.
	Cyanine-5-dUTP	No known significant effects or critical hazards.
	Cot-1 DNA	No known significant effects or critical hazards.
	Alu I	No known significant effects or critical hazards.
	Rsa I	No known significant effects or critical hazards.
	10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
	BSA	No known significant effects or critical hazards.
	Human Reference DNA Male	No known significant effects or critical hazards.
	Human Reference DNA Female	No known significant effects or critical hazards.
	10 SurePrint G3 human CGH arrays, 1x1M	No known significant effects or critical hazards.
<b>Ingestion</b>	: Nuclease Free Water	No known significant effects or critical hazards.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No known significant effects or critical hazards.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No known significant effects or critical hazards.
	10X aCGH Blocking Agent	No known significant effects or critical hazards.
	2X HI-RPM Hybridization Buffer	No known significant effects or critical hazards.



## Section 11. Toxicological information

Exo(-) Klenow	No known significant effects or critical hazards.
Random Primers	No known significant effects or critical hazards.
5X gDNA Reaction Buffer	No known significant effects or critical hazards.
10X dNTP Mix	No known significant effects or critical hazards.
Cyanine-3-dUTP	No known significant effects or critical hazards.
Cyanine-5-dUTP	No known significant effects or critical hazards.
Cot-1 DNA	No known significant effects or critical hazards.
Alu I	No known significant effects or critical hazards.
Rsa I	No known significant effects or critical hazards.
10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
BSA	No known significant effects or critical hazards.
Human Reference DNA Male	No known significant effects or critical hazards.
Human Reference DNA Female	No known significant effects or critical hazards.
10 SurePrint G3 human CGH arrays, 1x1M	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

#### Eye contact

<ul style="list-style-type: none"> <li>• Nuclease Free Water</li> </ul>	No specific data.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
10X aCGH Blocking Agent	Adverse symptoms may include the following: pain or irritation watering redness
2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: pain watering redness
Exo(-) Klenow	Adverse symptoms may include the following: irritation watering redness
<ul style="list-style-type: none"> <li>Random Primers</li> <li>5X gDNA Reaction Buffer</li> <li>10X dNTP Mix</li> <li>Cyanine-3-dUTP</li> <li>Cyanine-5-dUTP</li> <li>Cot-1 DNA</li> <li>Alu I</li> </ul>	<ul style="list-style-type: none"> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>Adverse symptoms may include the following: irritation watering redness</li> </ul>
Rsa I	Adverse symptoms may include the following: pain or irritation watering redness
<ul style="list-style-type: none"> <li>10X Restriction Enzyme Buffer</li> <li>BSA</li> <li>Human Reference DNA Male</li> <li>Human Reference DNA Female</li> <li>10 SurePrint G3 human CGH arrays, 1x1M</li> </ul>	<ul style="list-style-type: none"> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> <li>No specific data.</li> </ul>

## Section 11. Toxicological information

### Inhalation

☒ Nuclease Free Water	No specific data.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
10X aCGH Blocking Agent	Adverse symptoms may include the following: respiratory tract irritation coughing
2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: respiratory tract irritation coughing
Exo(-) Klenow	No specific data.
Random Primers	No specific data.
5X gDNA Reaction Buffer	No specific data.
10X dNTP Mix	No specific data.
Cyanine-3-dUTP	No specific data.
Cyanine-5-dUTP	No specific data.
Cot-1 DNA	No specific data.
Alu I	No specific data.
Rsa I	No specific data.
10X Restriction Enzyme Buffer	No specific data.
BSA	No specific data.
Human Reference DNA Male	No specific data.
Human Reference DNA Female	No specific data.
10 SurePrint G3 human CGH arrays, 1x1M	No specific data.

### Skin contact

☒ Nuclease Free Water	No specific data.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
10X aCGH Blocking Agent	Adverse symptoms may include the following: irritation redness
2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Exo(-) Klenow	No specific data.
Random Primers	No specific data.
5X gDNA Reaction Buffer	Adverse symptoms may include the following: irritation redness
10X dNTP Mix	No specific data.
Cyanine-3-dUTP	No specific data.
Cyanine-5-dUTP	No specific data.
Cot-1 DNA	No specific data.
Alu I	No specific data.
Rsa I	No specific data.
10X Restriction Enzyme Buffer	No specific data.
BSA	No specific data.
Human Reference DNA Male	No specific data.
Human Reference DNA Female	No specific data.
10 SurePrint G3 human CGH arrays, 1x1M	No specific data.

## Section 11. Toxicological information

<b>Ingestion</b>	:	☑ Nuclease Free Water	No specific data.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
		10X aCGH Blocking Agent	No specific data.
		2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: stomach pains
		Exo(-) Klenow	No specific data.
		Random Primers	No specific data.
		5X gDNA Reaction Buffer	No specific data.
		10X dNTP Mix	No specific data.
		Cyanine-3-dUTP	No specific data.
		Cyanine-5-dUTP	No specific data.
		Cot-1 DNA	No specific data.
		Alu I	No specific data.
		Rsa I	No specific data.
		10X Restriction Enzyme Buffer	No specific data.
		BSA	No specific data.
		Human Reference DNA Male	No specific data.
		Human Reference DNA Female	No specific data.
		10 SurePrint G3 human CGH arrays, 1x1M	No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

<b>General</b>	:	☑ Nuclease Free Water	No known significant effects or critical hazards.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No known significant effects or critical hazards.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No known significant effects or critical hazards.
		10X aCGH Blocking Agent	No known significant effects or critical hazards.
		2X HI-RPM Hybridization Buffer	May cause damage to organs through prolonged or repeated exposure.
		Exo(-) Klenow	No known significant effects or critical hazards.
		Random Primers	No known significant effects or critical hazards.
		5X gDNA Reaction Buffer	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
		10X dNTP Mix	No known significant effects or critical hazards.
		Cyanine-3-dUTP	No known significant effects or critical hazards.
		Cyanine-5-dUTP	No known significant effects or critical hazards.
		Cot-1 DNA	No known significant effects or critical hazards.
		Alu I	No known significant effects or critical hazards.
		Rsa I	No known significant effects or critical hazards.
		10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
		BSA	No known significant effects or critical hazards.
	Human Reference DNA Male	No known significant effects or critical hazards.	

## Section 11. Toxicological information

	Human Reference DNA Female 10 SurePrint G3 human CGH arrays, 1x1M	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: <input checked="" type="checkbox"/> Nuclease Free Water Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 10X aCGH Blocking Agent 2X HI-RPM Hybridization Buffer Exo(-) Klenow Random Primers 5X gDNA Reaction Buffer 10X dNTP Mix Cyanine-3-dUTP Cyanine-5-dUTP Cot-1 DNA Alu I Rsa I 10X Restriction Enzyme Buffer BSA Human Reference DNA Male Human Reference DNA Female 10 SurePrint G3 human CGH arrays, 1x1M	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: <input checked="" type="checkbox"/> Nuclease Free Water Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 10X aCGH Blocking Agent 2X HI-RPM Hybridization Buffer Exo(-) Klenow Random Primers 5X gDNA Reaction Buffer 10X dNTP Mix Cyanine-3-dUTP Cyanine-5-dUTP Cot-1 DNA Alu I Rsa I 10X Restriction Enzyme Buffer BSA Human Reference DNA Male Human Reference DNA Female 10 SurePrint G3 human CGH arrays, 1x1M	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Teratogenicity</b>	: <input checked="" type="checkbox"/> Nuclease Free Water Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 10X aCGH Blocking Agent 2X HI-RPM Hybridization Buffer Exo(-) Klenow Random Primers 5X gDNA Reaction Buffer 10X dNTP Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

## Section 11. Toxicological information

	Cyanine-3-dUTP	No known significant effects or critical hazards.
	Cyanine-5-dUTP	No known significant effects or critical hazards.
	Cot-1 DNA	No known significant effects or critical hazards.
	Alu I	No known significant effects or critical hazards.
	Rsa I	No known significant effects or critical hazards.
	10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
	BSA	No known significant effects or critical hazards.
	Human Reference DNA Male	No known significant effects or critical hazards.
	Human Reference DNA Female	No known significant effects or critical hazards.
	10 SurePrint G3 human CGH arrays, 1x1M	No known significant effects or critical hazards.
<b>Developmental effects</b>	: Nuclease Free Water	No known significant effects or critical hazards.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No known significant effects or critical hazards.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No known significant effects or critical hazards.
	10X aCGH Blocking Agent	No known significant effects or critical hazards.
	2X HI-RPM Hybridization Buffer	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	Random Primers	No known significant effects or critical hazards.
	5X gDNA Reaction Buffer	No known significant effects or critical hazards.
	10X dNTP Mix	No known significant effects or critical hazards.
	Cyanine-3-dUTP	No known significant effects or critical hazards.
	Cyanine-5-dUTP	No known significant effects or critical hazards.
	Cot-1 DNA	No known significant effects or critical hazards.
	Alu I	No known significant effects or critical hazards.
	Rsa I	No known significant effects or critical hazards.
	10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
	BSA	No known significant effects or critical hazards.
	Human Reference DNA Male	No known significant effects or critical hazards.
	Human Reference DNA Female	No known significant effects or critical hazards.
	10 SurePrint G3 human CGH arrays, 1x1M	No known significant effects or critical hazards.
<b>Fertility effects</b>	: Nuclease Free Water	No known significant effects or critical hazards.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No known significant effects or critical hazards.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No known significant effects or critical hazards.
	10X aCGH Blocking Agent	No known significant effects or critical hazards.
	2X HI-RPM Hybridization Buffer	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	Random Primers	No known significant effects or critical hazards.
	5X gDNA Reaction Buffer	No known significant effects or critical hazards.
	10X dNTP Mix	No known significant effects or critical hazards.
	Cyanine-3-dUTP	No known significant effects or critical hazards.
	Cyanine-5-dUTP	No known significant effects or critical hazards.
	Cot-1 DNA	No known significant effects or critical hazards.
	Alu I	No known significant effects or critical hazards.
	Rsa I	No known significant effects or critical hazards.
	10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
	BSA	No known significant effects or critical hazards.
	Human Reference DNA Male	No known significant effects or critical hazards.
	Human Reference DNA Female	No known significant effects or critical hazards.
	10 SurePrint G3 human CGH arrays, 1x1M	No known significant effects or critical hazards.

### [Numerical measures of toxicity](#)

#### [Acute toxicity estimates](#)

## Section 11. Toxicological information

Route	ATE value
<b>10X aCGH Blocking Agent</b> Oral	25030 mg/kg
<b>2X HI-RPM Hybridization Buffer</b> Oral Dermal Inhalation (dusts and mists)	2546 mg/kg 9381.9 mg/kg 16.33 mg/l
<b>Rsa I</b> Oral	172414.5 mg/kg
<b>10X Restriction Enzyme Buffer</b> Oral	103448.3 mg/kg

### Other information

☑ Nuclease Free Water	Not available.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
10X aCGH Blocking Agent	Not available.
2X HI-RPM Hybridization Buffer	Not available.
Exo(-) Klenow	Not available.
Random Primers	Not available.
5X gDNA Reaction Buffer	Adverse symptoms may include the following: May cause sensitization by skin contact.
10X dNTP Mix	Not available.
Cyanine-3-dUTP	Not available.
Cyanine-5-dUTP	Not available.
Cot-1 DNA	Not available.
Alu I	Not available.
Rsa I	Not available.
10X Restriction Enzyme Buffer	Not available.
BSA	Not available.
Human Reference DNA Male	Not available.
Human Reference DNA Female	Not available.
10 SurePrint G3 human CGH arrays, 1x1M	Not available.

## Section 12. Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>10X aCGH Blocking Agent</b> Trometamol	Acute EC50 >980 mg/l Fresh water Acute NOEC 520 mg/l Fresh water	Daphnia Daphnia	48 hours 48 hours
<b>2X HI-RPM Hybridization Buffer</b> Lithium chloride	Acute EC50 112 mg/l Fresh water Acute EC50 249 mg/l Fresh water Acute LC50 17000 µg/l Fresh water  Acute NOEC 25 mg/l Fresh water Acute NOEC 63.4 mg/l Fresh water	Algae Daphnia Fish - Ptychocheilus lucius - Swim-up Algae Daphnia	72 hours 48 hours 96 hours  72 hours 48 hours

## Section 12. Ecological information

Polyoxyethylene octyl phenyl ether	Acute NOEC 59.4 mg/l Fresh water	Fish	96 hours
	Acute LC50 5.85 mg/l Fresh water	Crustaceans - Ceriodaphnia rigaudi - Neonate	48 hours
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether	Acute LC50 11.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water EC50 28.2 mg/l	Fish - Pimephales promelas Algae	96 hours 72 hours
<b>Exo(-) Klenow</b> Glycerol	EC50 1.1 mg/l	Daphnia	48 hours
<b>Alu I</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
<b>Rsa I</b> Glycerol Sodium chloride	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
<b>10X Restriction Enzyme Buffer</b> Sodium chloride	Acute LC50 54000 mg/l Fresh water Acute EC50 4.74 g/L Fresh water	Fish - Oncorhynchus mykiss Algae - Chlamydomonas reinhardtii	96 hours 96 hours
	Acute EC50 519.6 mg/l Fresh water Acute EC50 402600 µg/l Fresh water Acute IC50 6.87 g/L Fresh water Acute LC50 1000000 µg/l Fresh water Chronic LC10 781 mg/l Fresh water	Crustaceans - Cypris subglobosa Daphnia - Daphnia magna Aquatic plants - Lemna minor Fish - Morone saxatilis - Larvae Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	48 hours 48 hours 96 hours 96 hours 3 weeks
	Chronic NOEC 6 g/L Fresh water Chronic NOEC 0.314 g/L Fresh water Chronic NOEC 100 mg/l Fresh water	Aquatic plants - Lemna minor Daphnia - Daphnia pulex Fish - Gambusia holbrooki - Adult	96 hours 21 days 8 weeks
	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water Acute EC50 402600 µg/l Fresh water Acute IC50 6.87 g/L Fresh water Acute LC50 1000000 µg/l Fresh water Chronic LC10 781 mg/l Fresh water	Crustaceans - Cypris subglobosa Daphnia - Daphnia magna Aquatic plants - Lemna minor Fish - Morone saxatilis - Larvae Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	48 hours 48 hours 96 hours 96 hours 3 weeks
	Chronic NOEC 6 g/L Fresh water Chronic NOEC 0.314 g/L Fresh water Chronic NOEC 100 mg/l Fresh water	Aquatic plants - Lemna minor Daphnia - Daphnia pulex Fish - Gambusia holbrooki - Adult	96 hours 21 days 8 weeks

### [12.2 Persistence and degradability](#)

## Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
<b>Exo(-) Klenow</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
<b>5X gDNA Reaction Buffer</b> 2-Mercaptoethanol	OECD 310 Ready Biodegradability - CO <sub>2</sub> in Sealed Vessels (Headspace Test)	69 % - Inherent - 60 days	20 mg/l	-
<b>Alu I</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
<b>Rsa I</b> Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>Nuclease Free Water</b> Water	-	-	Readily
<b>2X HI-RPM Hybridization Buffer</b> Lithium chloride Polyoxyethylene octyl phenyl ether	- -	- -	Readily Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>Nuclease Free Water</b> Water	-1.38	-	low
<b>10X aCGH Blocking Agent</b> Trometamol	-1.56	-	low
<b>2X HI-RPM Hybridization Buffer</b> Polyoxyethylene octyl phenyl ether	4.86	-	high
<b>Exo(-) Klenow</b> Glycerol	-1.76	-	low
<b>5X gDNA Reaction Buffer</b> 2-Mercaptoethanol	-0.056	-	low



## Section 12. Ecological information

<b>Alu I</b> Glycerol	-1.76	-	low
<b>Rsa I</b> Glycerol	-1.76	-	low

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**12.5 Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.**

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## Section 14. Transport information

**DOT / TDG / Mexico / IMDG / IATA** : Not regulated.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## Section 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**U.S. Federal regulations** : **TSCA 8(a) PAIR**: Polyoxyethylene octyl phenyl ether  
**TSCA 8(a) CDR Exempt/Partial exemption**: Not determined  
**Clean Water Act (CWA) 311**: Sodium hydroxide; Edetic acid

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

#### SARA 302/304

##### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

#### SARA 311/312

##### **Classification**

☑ Nuclease Free Water	Not applicable.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not applicable.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not applicable.
10X aCGH Blocking Agent	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
2X HI-RPM Hybridization Buffer	SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (cardiovascular system, central nervous system (CNS), kidneys, thyroid) - Category 2 EYE IRRITATION - Category 2B
Exo(-) Klenow	Not applicable.
Random Primers	SKIN SENSITIZATION - Category 1
5X gDNA Reaction Buffer	Not applicable.
10X dNTP Mix	Not applicable.
Cyanine-3-dUTP	Not applicable.
Cyanine-5-dUTP	Not applicable.
Cot-1 DNA	Not applicable.
Alu I	EYE IRRITATION - Category 2B
Rsa I	EYE IRRITATION - Category 2A
10X Restriction Enzyme Buffer	Not applicable.
BSA	Not applicable.
Human Reference DNA Male	Not applicable.
Human Reference DNA Female	Not applicable.
10 SurePrint G3 human CGH arrays, 1x1M	Not applicable.

##### Composition/information on ingredients

## Section 15. Regulatory information

Name	%	Classification
<b>10X aCGH Blocking Agent</b> Trometamol	≥10 - ≤25	COMBUSTIBLE DUSTS SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	≥10 - ≤25	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
<b>2X HI-RPM Hybridization Buffer</b> Lithium chloride	≤12	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (cardiovascular system, central nervous system (CNS), kidneys, thyroid) - Category 2
Dilithium N,N'-ethylenebis[N-(carboxymethyl)aminoacetate]	≤10	COMBUSTIBLE DUSTS
Polyoxyethylene octyl phenyl ether	≤6.3	ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Lithium dodecyl sulphate	≤6.3	FLAMMABLE SOLIDS - Category 1 COMBUSTIBLE DUSTS ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether	≤1.9	ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A
<b>Exo(-) Klenow</b> Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2A
<b>5X gDNA Reaction Buffer</b> 2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	≤5	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
2-Mercaptoethanol	<1	FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 2 ACUTE TOXICITY (inhalation) - Category 2 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
<b>Alu I</b> Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2A
Trisodium citrate	≤3	COMBUSTIBLE DUSTS
<b>Rsa I</b> Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2A

## Section 15. Regulatory information

Sodium chloride	≤3	EYE IRRITATION - Category 2A
<b>10X Restriction Enzyme Buffer</b>		
Sodium chloride	≤3	EYE IRRITATION - Category 2A
2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	≤3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
<b>10 SurePrint G3 human CGH arrays, 1x1M</b>		
Sodium silicate	≥90	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

### State regulations

- Massachusetts** : The following components are listed: GLYCERINE MIST
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL
- Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

- Australia** : Not determined.
- Canada** : Not determined.
- China** : Not determined.
- Europe** : Not determined.
- Japan** : **Japan inventory (ENCS)**: Not determined.  
**Japan inventory (ISHL)**: Not determined.
- Malaysia** : Not determined.
- New Zealand** : Not determined.
- Philippines** : Not determined.
- Republic of Korea** : Not determined.
- Taiwan** : Not determined.
- Thailand** :  Not determined.
- Turkey** : Not determined.
- United States** : Not determined.
- Viet Nam** :  Not determined.

## Section 16. Other information

### History

**Date of issue** : 10/22/2018  
**Date of previous issue** : 06/10/2016  
**Version** : 4

### Procedure used to derive the classification

Classification	Justification
<b>10X aCGH Blocking Agent</b> SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method Calculation method Calculation method
<b>2X HI-RPM Hybridization Buffer</b> SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (cardiovascular system, central nervous system (CNS), kidneys, thyroid) - Category 2 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method
<b>Exo(-) Klenow</b> EYE IRRITATION - Category 2B	Calculation method
<b>5X gDNA Reaction Buffer</b> SKIN SENSITIZATION - Category 1	Calculation method
<b>Alu I</b> EYE IRRITATION - Category 2B	Calculation method
<b>Rsa I</b> EYE IRRITATION - Category 2A	Calculation method

Indicates information that has changed from previously issued version.

### Notice to reader

**Disclaimer:** The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

**Note \*** : **10 SurePrint G3 human CGH arrays, 1x1M:** This component is considered an article. Information provided is based on the encapsulated substance or mixture in this article.