

# SAFETY DATA SHEET



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

## Section 1. Identification

<b>Product identifier</b>	: SurePrint G3 CGH/CGH+SNP 1x1M Bundle, Part Number G5920A																																						
<b>Part no. (chemical kit)</b>	: G5920A																																						
<b>Part no.</b>	: <table border="0" style="margin-left: 20px;"> <tr> <td><input checked="" type="checkbox"/> Nuclease Free Water</td> <td>5190-0439</td> </tr> <tr> <td>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1</td> <td>5188-5221</td> </tr> <tr> <td>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2</td> <td>5188-5222</td> </tr> <tr> <td>10X aCGH Blocking Agent</td> <td>5188-6416</td> </tr> <tr> <td>2X HI-RPM Hybridization Buffer</td> <td>5188-6417</td> </tr> <tr> <td>Exo(-) Klenow</td> <td>5190-0437</td> </tr> <tr> <td>Random Primers</td> <td>5190-0441</td> </tr> <tr> <td>5X gDNA Reaction Buffer</td> <td>5190-3387</td> </tr> <tr> <td>10X dNTP Mix</td> <td>5190-3388</td> </tr> <tr> <td>Cyanine-3-dUTP</td> <td>5190-3389</td> </tr> <tr> <td>Cyanine-5-dUTP</td> <td>5190-3390</td> </tr> <tr> <td>Cot-1 DNA</td> <td>5190-3392</td> </tr> <tr> <td>Alu I</td> <td>5190-3394</td> </tr> <tr> <td>Rsa I</td> <td>5190-3395</td> </tr> <tr> <td>10X Restriction Enzyme Buffer</td> <td>5190-3396</td> </tr> <tr> <td>BSA</td> <td>5190-3397</td> </tr> <tr> <td>Human Reference DNA Male</td> <td>5190-4370</td> </tr> <tr> <td>Human Reference DNA Female</td> <td>5190-4371</td> </tr> <tr> <td>10 SurePrint G3 human CGH arrays, 1x1M</td> <td>G3358A, G4123A, G4447-60510, G4506-60510, G4824A, G4828A, G4838A, G4840A, G4855A, G4860A, G4866A, G4882A, G4902A, G5934A</td> </tr> </table>	<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
<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																																						


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

<b>Material uses</b>	: Analytical reagent.																																						
	: <table border="0" style="margin-left: 20px;"> <tr> <td><input checked="" type="checkbox"/> Nuclease Free Water</td> <td>2 x 1500 µl</td> </tr> <tr> <td>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1</td> <td>2 x 4000000 µl</td> </tr> <tr> <td>Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2</td> <td>4000000 µl</td> </tr> <tr> <td>10X aCGH Blocking Agent</td> <td>25 Hybs lyophilised</td> </tr> <tr> <td>2X HI-RPM Hybridization Buffer</td> <td>1400 µl</td> </tr> <tr> <td>Exo(-) Klenow</td> <td>2 x 55 µl</td> </tr> <tr> <td>Random Primers</td> <td>2 x 265 µl</td> </tr> <tr> <td>5X gDNA Reaction Buffer</td> <td>2 x 550 µl</td> </tr> <tr> <td>10X dNTP Mix</td> <td>2 x 265 µl</td> </tr> <tr> <td>Cyanine-3-dUTP</td> <td>2 x 78 µl</td> </tr> <tr> <td>Cyanine-5-dUTP</td> <td>2 x 78 µl</td> </tr> <tr> <td>Cot-1 DNA</td> <td>4 x 625 µl 1 µg/ µl</td> </tr> <tr> <td>Alu I</td> <td>2 x 28 µl 10 U/ µl</td> </tr> <tr> <td>Rsa I</td> <td>2 x 28 µl 10 U/ µl</td> </tr> <tr> <td>10X Restriction Enzyme Buffer</td> <td>142 µl</td> </tr> <tr> <td>BSA</td> <td>2 x 15 µl</td> </tr> <tr> <td>Human Reference DNA Male</td> <td>125 µl 0.2 µg/ µl</td> </tr> <tr> <td>Human Reference DNA Female</td> <td>125 µl 0.2 µg/ µl</td> </tr> <tr> <td>10 SurePrint G3 human CGH arrays, 1x1M</td> <td>glass slide</td> </tr> </table>	<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 lyophilised	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
<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 lyophilised																																						
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

**Supplier/Manufacturer** : Agilent Technologies Australia Pty Ltd  
679 Springvale Road  
Mulgrave  
Victoria 3170, Australia  
1800 802 402

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(61)-290372994

**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. Hazard(s) identification


### Classification of the substance or mixture

#### 10X aCGH Blocking Agent

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

#### 2X HI-RPM Hybridization

##### Buffer





H315	SKIN CORROSION/IRRITATION - Category 2
H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
H335	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3
H373	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (cardiovascular system, central nervous system (CNS), kidneys, thyroid) - Category 2
H402	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3
H412	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
 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%
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%
Exo(-) Klenow	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
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%
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%
Rsa I	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
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)

## Section 2. Hazard(s) identification

BSA	of unknown inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10% 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%
10 SurePrint G3 human CGH arrays, 1x1M	Percentage of the mixture consisting of ingredient(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%

### GHS label elements

#### Hazard pictograms

: 10X aCGH Blocking Agent	
2X HI-RPM Hybridization Buffer	  

#### Signal word

: Nuclease Free Water	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	No signal word.
Random Primers	No signal word.
5X gDNA Reaction Buffer	No signal word.
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	No signal word.
Rsa I	No signal word.
10X Restriction Enzyme Buffer	No signal word.
BSA	No signal word.
Human Reference DNA Male	No signal word.
Human Reference DNA Female	No signal word.
10 SurePrint G3 human CGH arrays, 1x1M	No signal word.

## Section 2. Hazard(s) identification

<b>Hazard statements</b>	:	<p>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</p> <p>2X HI-RPM Hybridization Buffer</p> <p>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</p>	<p>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.</p> <p>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.</p> <p>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. 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.</p>
--------------------------	---	--	--

### Precautionary statements

#### Prevention

:	<p>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</p> <p>2X HI-RPM Hybridization Buffer</p> <p>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</p>	<p>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 vapour. P264 - Wash hands thoroughly after handling.</p> <p>Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.</p>
---	---	---

**Section 2. Hazard(s) identification**

	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 victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P302 + P352 + P362 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing 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 victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P302 + P352 + P362 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing 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.
	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 2. Hazard(s) identification

### Storage

:	☑	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.

### Disposal

:	☑	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 international regulations.
		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.

### Supplemental label elements

#### Additional warning phrases

:	☑	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	Not applicable.
		2X HI-RPM Hybridization Buffer	Not applicable.

## Section 2. Hazard(s) identification

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.

**Other hazards which do not result in classification**

<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.

## Section 3. Composition and ingredient information

**Substance/mixture**

<input checked="" type="checkbox"/> Nuclease Free Water	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	Mixture

## Section 3. Composition and ingredient information

Buffer	
BSA	Mixture
Human Reference DNA Male	Mixture
Human Reference DNA Female	Mixture
10 SurePrint G3 human CGH arrays, 1x1M	Mixture (encapsulated in article)

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
<b>Nuclease Free Water</b> Water	100	7732-18-5
<b>10X aCGH Blocking Agent</b> Trometamol	≥10 - ≤30	77-86-1
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≥10 - ≤30	1185-53-1
<b>2X HI-RPM Hybridization Buffer</b> Lithium chloride	≤12	7447-41-8
Polyoxyethylene octyl phenyl ether	≤6.4	9002-93-1
Lithium dodecyl sulphate	≤6.4	2044-56-6
<b>Exo(-) Klenow</b> Glycerol	≥30 - ≤60	56-81-5
<b>Alu I</b> Glycerol	≥30 - ≤60	56-81-5
Trisodium citrate	≤3	68-04-2
<b>Rsa I</b> Glycerol	≥30 - ≤60	56-81-5

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

### Description of necessary first aid measures

<b>Eye contact</b>	: <b>Nuclease Free Water</b>	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.



## Section 4. First aid measures

	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. Get medical attention if irritation occurs.
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. Get medical attention if irritation occurs.
10X dNTP Mix	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-3-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.
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. Get medical attention if irritation occurs.
Rsa I	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 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.

## Section 4. First aid measures

### 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 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.
2X HI-RPM Hybridization Buffer	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. Get medical attention if symptoms occur.
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. 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.
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

## Section 4. First aid measures

Cot-1 DNA	attention if symptoms occur. 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. Get medical attention if symptoms occur.
Rsa I	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
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.
<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.
Random Primers	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
5X gDNA Reaction Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
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.

## Section 4. First aid measures

	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.
Rsa I	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
10X Restriction Enzyme Buffer	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

## Section 4. First aid measures

	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 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.
Exo(-) Klenow	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.
Random Primers	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.
5X gDNA Reaction 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.
10X dNTP Mix	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.
Cyanine-3-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.
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

## Section 4. First aid measures

	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 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.
Rsa I	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 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.
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.

[Most important symptoms/effects, acute and delayed](#)

[Potential acute health effects](#)

## Section 4. First aid measures

<b>Eye 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 serious eye irritation.
		2X HI-RPM Hybridization Buffer	Causes serious eye damage.
		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>Inhalation</b>	:	Nuclease Free Water
		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
		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	No known significant effects or critical hazards.
		10X dNTP Mix	No known significant effects or critical hazards.

## Section 4. First aid measures

### Ingestion

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>N</b> uclease 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.

### Over-exposure signs/symptoms

#### Eye contact

<b>N</b> uclease 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: pain or irritation watering redness
2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following:  pain watering redness
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.



## Section 4. First aid measures

	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>Inhalation</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: 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.
<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	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.

## Section 4. First aid measures

	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.
	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.

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

<b>Notes to physician</b>	: 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

## Section 4. First aid measures

Cyanine-3-dUTP	ingested or inhaled. 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 specialist immediately if large quantities have been ingested or inhaled.
Human Reference DNA Male	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.

### Specific treatments

☒ 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.

## Section 4. First aid measures

<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.
		Random Primers	No action shall be taken involving any personal risk or without suitable training.
		5X gDNA Reaction Buffer	No action shall be taken involving any personal risk or without suitable training.
		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.
		Rsa I	No action shall be taken involving any personal risk or without suitable training.
		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. Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	:	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	Use an extinguishing agent suitable for the surrounding fire.

## Section 5. Firefighting measures

	Buffer	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.
	Cot-1 DNA	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>	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.
	<b>Specific hazards arising from the chemical</b>	Nuclease Free Water
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		In a fire or if heated, a pressure increase will occur

## Section 5. Firefighting measures

	Buffer	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.
	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>	: 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

## Section 5. Firefighting measures

10X dNTP Mix	halogenated compounds
Cyanine-3-dUTP	No specific data.
Cyanine-5-dUTP	No specific data.
Cot-1 DNA	No specific data.
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	No specific data.
Human Reference DNA Female	No specific data.
10 SurePrint G3 human CGH arrays, 1x1M	Decomposition products may include the following materials: metal oxide/oxides

### 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. Firefighting 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.
<b>Special protective equipment for fire-fighters</b>	<b>☑</b> 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.
	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.




## Section 5. Firefighting measures

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

## Section 6. Accidental release measures

### 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 spilt 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 spilt 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 spilt 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 spilt 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 spilt material. Do not breathe vapour 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 spilt material. 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 spilt material. Put on appropriate personal protective equipment.
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 spilt material. 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 spilt 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

## Section 6. Accidental release measures

Cyanine-5-dUTP	through spilt 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 spilt 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 spilt 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 spilt material. 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 spilt material. 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 spilt material. Put on appropriate personal protective equipment.
BSA	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 spilt material. Put on appropriate personal protective equipment.
Human Reference DNA Male	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 spilt 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 spilt 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 spilt material. Put on appropriate personal protective equipment.

**For emergency responders :** Nuclease Free Water

If specialised 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".  
If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the

## Section 6. Accidental release measures

Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	information in "For non-emergency personnel". If specialised 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 specialised 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 specialised 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 specialised 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 specialised 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 specialised 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 specialised 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 specialised 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-5-dUTP	If specialised 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 specialised 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 specialised 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 specialised 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 specialised 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 specialised 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 specialised 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 specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the

## Section 6. Accidental release measures

10 SurePrint G3 human  
CGH arrays, 1x1M

information in "For non-emergency personnel".  
If specialised 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".

**Environmental precautions** :  Nuclease Free Water

Avoid dispersal of spilt 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 spilt 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 spilt 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 spilt 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).

2X HI-RPM Hybridization  
Buffer

Avoid dispersal of spilt 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 spilt 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 spilt 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 spilt 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 spilt 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 spilt 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 spilt 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 spilt material and runoff and

## Section 6. Accidental release measures

	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 spilt 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 spilt 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 spilt 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).
BSA	Avoid dispersal of spilt 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 spilt 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 spilt 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 spilt 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).

### Methods and material for containment and cleaning up

**Methods for cleaning up** :  Nucleic Acid 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

## Section 6. Accidental release measures

2X HI-RPM Hybridization Buffer	a licensed waste disposal contractor. 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 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.


## Section 6. Accidental release measures

	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.
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, labelled waste container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### [Precautions for safe handling](#)

#### Protective measures

:  Nuclease Free Water	Put on appropriate personal protective equipment (see Section 8).
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Put on appropriate personal protective equipment (see Section 8).
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Put on appropriate personal protective equipment (see Section 8).
10X aCGH Blocking Agent	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.
2X HI-RPM Hybridization Buffer	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour 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.
Exo(-) Klenow	Put on appropriate personal protective equipment (see Section 8).
Random Primers	Put on appropriate personal protective equipment (see Section 8).
5X gDNA Reaction Buffer	Put on appropriate personal protective equipment (see Section 8).
10X dNTP Mix	Put on appropriate personal protective equipment (see Section 8).
Cyanine-3-dUTP	Put on appropriate personal protective equipment (see Section 8).



## Section 7. Handling and storage

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).
Rsa I	Put on appropriate personal protective equipment (see Section 8).
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).
<b>Advice on general occupational hygiene</b>	<b>:</b> 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 contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
10X aCGH Blocking Agent	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

## Section 7. Handling and storage

5X gDNA Reaction Buffer	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.
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

## Section 7. Handling and storage

Human Reference DNA Male	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. 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.

**Conditions for safe storage, including any incompatibilities** : Nuclease Free Water

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 unlabelled 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 unlabelled 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

## Section 7. Handling and storage

2X HI-RPM Hybridization Buffer	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 unlabelled 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. 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 unlabelled 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 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Random Primers	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 unlabelled 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 unlabelled 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 unlabelled 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

## Section 7. Handling and storage

Cyanine-5-dUTP

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 unlabelled 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Cot-1 DNA

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 unlabelled 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 unlabelled 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 unlabelled 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for

## Section 7. Handling and storage

BSA	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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Human Reference DNA Male	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 unlabelled 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 unlabelled 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls and personal protection

### [Control parameters](#)

### [Occupational exposure limits](#)

Ingredient name	Exposure limits
<input checked="" type="checkbox"/> <b>HI-RPM Hybridization Buffer</b> Lithium chloride  <b>Exo(-) Klenow</b> Glycerol	<b>DFG MAC-values list (Germany, 7/2017).</b> TWA: 0.2 mg/m <sup>3</sup> , (as Li) 8 hours. Form: Inhalable fraction PEAK: 0.2 mg/m <sup>3</sup> , (as Li), 4 times per shift, 15 minutes. Form: Inhalable fraction  <b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.

## Section 8. Exposure controls and personal protection

<b>Alu I</b> Glycerol  Trisodium citrate	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. <b>DFG MAC-values list (Germany, 7/2017).</b> CEIL: 2 mg/m <sup>3</sup>
<b>Rsa I</b> Glycerol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapour 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. 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**
- 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

### Appearance

## Section 9. Physical and chemical properties

<b>Physical state</b>	:	☑ 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. [lyophilised 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>Colour</b>	:	☑ Nuclease Free Water	Colourless.
			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>Odour</b>		:	☑ Nuclease Free Water	Odourless.
			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.	



## Section 9. Physical and chemical properties

		Cyanine-5-dUTP	Not available.
		Cot-1 DNA	Not available.
		Alu I	Not available.
		Rsa I	Not available.
		10X Restriction Enzyme	Not available.
		Buffer	
		BSA	Not available.
		Human Reference DNA Male	Not available.
		Human Reference DNA	Not available.
		Female	
		10 SurePrint G3 human	Not available.
		CGH arrays, 1x1M	
<b>Odour threshold</b>	:	Nuclease Free Water	Not available.
		Agilent Oligo aCGH/ChIP-on-	Not available.
		Chip Wash Buffer 1	
		Agilent Oligo aCGH/ChIP-on-	Not available.
		Chip Wash Buffer 2	
		10X aCGH Blocking Agent	Not available.
		2X HI-RPM Hybridization	Not available.
		Buffer	
		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	Not available.
		Buffer	
		BSA	Not available.
		Human Reference DNA Male	Not available.
		Human Reference DNA	Not available.
		Female	
		10 SurePrint G3 human	Not available.
		CGH arrays, 1x1M	
<b>pH</b>	:	Nuclease Free Water	7
		Agilent Oligo aCGH/ChIP-on-	8.2 to 8.6
		Chip Wash Buffer 1	
		Agilent Oligo aCGH/ChIP-on-	8 to 8.4
		Chip Wash Buffer 2	
		10X aCGH Blocking Agent	Not available.
		2X HI-RPM Hybridization	6.1
		Buffer	
		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	7.9
		Buffer	
		BSA	Not available.
		Human Reference DNA Male	8
		Human Reference DNA	8
		Female	
		10 SurePrint G3 human	Not available.
		CGH arrays, 1x1M	

## Section 9. Physical and chemical properties

<b>Melting point</b>	:	☑ 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.	
	<b>Boiling point</b>	:	☑ 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)	
		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.	

## Section 9. Physical and chemical properties

	Cyanine-5-dUTP	Not available.
	Cot-1 DNA	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme	Not available.
	Buffer	
	BSA	Not available.
	Human Reference DNA Male	Not available.
	Human Reference DNA	Not available.
	Female	
	10 SurePrint G3 human	Not available.
	CGH arrays, 1x1M	
<b>Evaporation rate</b>	: Nuclease Free Water	Not available.
	Agilent Oligo aCGH/ChIP-on-	Not available.
	Chip Wash Buffer 1	
	Agilent Oligo aCGH/ChIP-on-	Not available.
	Chip Wash Buffer 2	
	10X aCGH Blocking Agent	Not available.
	2X HI-RPM Hybridization	Not available.
	Buffer	
	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	Not available.
	Buffer	
	BSA	Not available.
	Human Reference DNA Male	Not available.
	Human Reference DNA	Not available.
	Female	
	10 SurePrint G3 human	Not available.
	CGH arrays, 1x1M	
<b>Flammability (solid, gas)</b>	: Nuclease Free Water	Not applicable.
	Agilent Oligo aCGH/ChIP-on-	Not applicable.
	Chip Wash Buffer 1	
	Agilent Oligo aCGH/ChIP-on-	Not applicable.
	Chip Wash Buffer 2	
	10X aCGH Blocking Agent	Not available.
	2X HI-RPM Hybridization	Not applicable.
	Buffer	
	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	Not applicable.
	Buffer	
	BSA	Not applicable.
	Human Reference DNA Male	Not applicable.
	Human Reference DNA	Not applicable.
	Female	
	10 SurePrint G3 human	Not available.
	CGH arrays, 1x1M	

## Section 9. Physical and chemical properties

<b>Lower and upper explosive (flammable) limits</b>	<b>:</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>Vapour pressure</b>	<b>:</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.
		10 SurePrint G3 human CGH arrays, 1x1M	Not available.
<b>Vapour density</b>		<b>:</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.

## Section 9. Physical and chemical properties

	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.
<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.

## Section 9. Physical and chemical properties

	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	-1.38
	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>Auto-ignition temperature</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.
10 SurePrint G3 human CGH arrays, 1x1M		Not available.

## Section 9. Physical and chemical properties

<b>Decomposition temperature</b>	<b>:</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>	<b>:</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 10. Stability and reactivity

<b>Reactivity</b>	<b>:</b> Nuclease Free Water	No specific test data related to reactivity available for this product or its ingredients.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific test data related to reactivity available for this product or its ingredients.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific test data related to reactivity available for this product or its ingredients.
	10X aCGH Blocking Agent	No specific test data related to reactivity available for this product or its ingredients.
	2X HI-RPM Hybridization Buffer	No specific test data related to reactivity available for this product or its ingredients.

## Section 10. Stability and reactivity

Exo(-) Klenow	No specific test data related to reactivity available for this product or its ingredients.
Random Primers	No specific test data related to reactivity available for this product or its ingredients.
5X gDNA Reaction Buffer	No specific test data related to reactivity available for this product or its ingredients.
10X dNTP Mix	No specific test data related to reactivity available for this product or its ingredients.
Cyanine-3-dUTP	No specific test data related to reactivity available for this product or its ingredients.
Cyanine-5-dUTP	No specific test data related to reactivity available for this product or its ingredients.
Cot-1 DNA	No specific test data related to reactivity available for this product or its ingredients.
Alu I	No specific test data related to reactivity available for this product or its ingredients.
Rsa I	No specific test data related to reactivity available for this product or its ingredients.
10X Restriction Enzyme Buffer	No specific test data related to reactivity available for this product or its ingredients.
BSA	No specific test data related to reactivity available for this product or its ingredients.
Human Reference DNA Male	No specific test data related to reactivity available for this product or its ingredients.
Human Reference DNA Female	No specific test data related to reactivity available for this product or its ingredients.
10 SurePrint G3 human CGH arrays, 1x1M	No specific test data related to reactivity available for this product or its ingredients.

### Chemical stability

☑ 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.

### Possibility of hazardous reactions

☑ 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,



## Section 10. Stability and reactivity

2X HI-RPM Hybridization Buffer	hazardous reactions will not occur. 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, hazardous reactions will not occur.
10 SurePrint G3 human CGH arrays, 1x1M	Under normal conditions of storage and use, hazardous reactions will not occur.

### Conditions to avoid

: 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	No specific data.
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.

## Section 10. Stability and reactivity

<b>Incompatible materials</b>	:	Nuclease Free Water	May react or be incompatible with oxidising materials.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	May react or be incompatible with oxidising materials.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	May react or be incompatible with oxidising materials.
		10X aCGH Blocking Agent	May react or be incompatible with oxidising materials.
		2X HI-RPM Hybridization Buffer	May react or be incompatible with oxidising materials.
		Exo(-) Klenow	May react or be incompatible with oxidising materials.
		Random Primers	May react or be incompatible with oxidising materials.
		5X gDNA Reaction Buffer	May react or be incompatible with oxidising materials.
		10X dNTP Mix	May react or be incompatible with oxidising materials.
		Cyanine-3-dUTP	May react or be incompatible with oxidising materials.
		Cyanine-5-dUTP	May react or be incompatible with oxidising materials.
		Cot-1 DNA	May react or be incompatible with oxidising materials.
		Alu I	May react or be incompatible with oxidising materials.
		Rsa I	May react or be incompatible with oxidising materials.
		10X Restriction Enzyme Buffer	May react or be incompatible with oxidising materials.
		BSA	May react or be incompatible with oxidising materials.
		Human Reference DNA Male	May react or be incompatible with oxidising materials.
	Human Reference DNA Female	May react or be incompatible with oxidising materials.	
	10 SurePrint G3 human CGH arrays, 1x1M	May react or be incompatible with oxidising materials.	

<b>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,

## Section 10. Stability and reactivity

Rsa I	hazardous decomposition products should not be produced. 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 produced.
Human Reference DNA Female	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

### 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	Rat Rabbit Rat Rat	>5.57 mg/l 1629 mg/kg 1488 mg/kg 526 mg/kg	4 hours - - -
Polyoxyethylene octyl phenyl ether Lithium dodecyl sulphate	LD50 Oral	Rat	1800 mg/kg >5000 mg/kg	- -
<b>Exo(-) Klenow</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>Alu I</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>Rsa I</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### Irritation/Corrosion

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	- -

## Section 11. Toxicological information

Polyoxyethylene octyl phenyl ether	Eyes - Moderate irritant	Rabbit	-	24 hours 10 microliters	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 microliters	-
<b>Exo(-) Klenow</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
<b>Alu I</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
<b>Rsa I</b> Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

### Sensitisation

Not available.

### 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

### 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 likely routes of exposure		
☑ 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		
☑ 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		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.

## Section 11. Toxicological information

	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	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>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.

## Section 11. Toxicological information

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

<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 specific data. No specific data. No specific data. Adverse symptoms may include the following: pain or irritation watering redness Adverse symptoms may include the following: pain watering redness No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
---	--

#### Inhalation

<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 specific data. No specific data. No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing Adverse symptoms may include the following: respiratory tract irritation coughing No specific data. No specific data. No specific data. No specific data.
--	---

## Section 11. Toxicological information

	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	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>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.



## Section 11. Toxicological information

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 as well as 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	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>Carcinogenicity</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	No known significant effects or critical hazards.

## Section 11. Toxicological information

### Mutagenicity

Buffer  
 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.

**:**  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.

### Teratogenicity

Buffer  
 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.

**:**  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.

Buffer  
 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.

## Section 11. Toxicological information

<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
		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

Route	ATE value
☑ 2X HI-RPM Hybridization Buffer	
Oral	2583.6 mg/kg
Dermal	9381.9 mg/kg
Inhalation (dusts and mists)	16.33 mg/l

## Section 11. Toxicological information

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

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
<b>10X aCGH Blocking Agent</b> Trometamol	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
<b>2X HI-RPM Hybridization Buffer</b> Lithium chloride	Acute EC50 112 mg/l Fresh water	Algae	72 hours
	Acute EC50 249 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 17000 µg/l Fresh water	Fish - Ptychocheilus lucius - Swim-up	96 hours
	Acute NOEC 25 mg/l Fresh water	Algae	72 hours
	Acute NOEC 63.4 mg/l Fresh water	Daphnia	48 hours
	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
Polyoxyethylene octyl phenyl ether	Acute LC50 11.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
<b>Exo(-) Klenow</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
<b>Alu I</b> Glycerol Trisodium citrate	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute EC50 735.54 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
<b>Rsa I</b> Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### 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>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

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

### Mobility in soil

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

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

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimised 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.

## Section 14. Transport information

**ADG / IMDG / IATA** : Not regulated as Dangerous Goods according to the ADG Code .

**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

### Standard Uniform Schedule of Medicine and Poisons

6, 5

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

### 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

<b>Australia</b>	: Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: Not determined.
<b>Europe</b>	: Not determined.
<b>Japan</b>	: <b>Japan inventory (ENCS):</b> Not determined. <b>Japan inventory (ISHL):</b> Not determined.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.

## Section 15. Regulatory information

Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

## Section 16. Any other relevant information

### History

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

Key to abbreviations	: ADG = Australian Dangerous Goods ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) NOHSC = National Occupational Health and Safety Commission SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations
----------------------	---

### Procedure used to derive the classification

Classification	Justification
<input checked="" type="checkbox"/> <b>10X aCGH Blocking Agent</b> Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335	Calculation method Calculation method Calculation method
<b>2X HI-RPM Hybridization Buffer</b> Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 (cardiovascular system, central nervous system (CNS), kidneys, thyroid) Aquatic Acute 3, H402 Aquatic Chronic 3, H412	Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method

References : Not available.

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.