

SAFETY DATA SHEET



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

Section 1. Identification

1.1 Product identifier

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

Validation date : 06/10/2016

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

Material uses	: Analytical reagent.	
	Nuclease Free Water	2 x 1500 µl
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	2 x 4 L
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	4 L
	10X aCGH Blocking Agent	25 Hybs lyophilized
	2X HI-RPM Hybridization Buffer	1.4 ml
	Exo(-) Klenow	2 x 55 µl
	Random Primers	2 x 265 µl
	5X gDNA Reaction Buffer	2 x 550 µl
	10X dNTP Mix	2 x 265 µl
	Cyanine-3-dUTP	2 x 78 µl
	Cyanine-5-dUTP	2 x 78 µl
	Cot-1 DNA	4 x 625 µl 1 µg/µl
	Alu I	2 x 28 µl 10 U/µl
	Rsa I	2 x 28 µl 10 U/µl
	10X Restriction Enzyme Buffer	142 µl
	BSA	2 x 15 µl
	Human Reference DNA Male	125 µl 0.2 µg/µl
	Human Reference DNA Female	125 µl 0.2 µg/µl
	10 SurePrint G3 human CGH arrays, 1x1M	glass slide

Section 1. Identification

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

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

Section 2. Hazards identification

2.1 Classification of the substance or mixture

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

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

Classification of the substance or mixture

10X aCGH Blocking Agent

H315 SKIN IRRITATION - Category 2
H319 EYE IRRITATION - Category 2A

2X HI-RPM Hybridization Buffer

H315 SKIN IRRITATION - Category 2
H318 SERIOUS EYE DAMAGE - Category 1
H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 2

Exo(-) Klenow

Section 2. Hazards identification

H320 EYE IRRITATION - Category 2B

5X gDNA Reaction Buffer

H317 SKIN SENSITIZATION - Category 1

Alu I

H320 EYE IRRITATION - Category 2B

Rsa I

H319 EYE IRRITATION - Category 2A

Ingredients of unknown toxicity	:	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	Percentage of the mixture consisting of ingredient (s) of unknown toxicity: 94.2%
		2X HI-RPM Hybridization Buffer	Percentage of the mixture consisting of ingredient (s) of unknown toxicity: 10.9%
		Exo(-) Klenow	Not applicable.
		Random Primers	Not applicable.
		5X gDNA Reaction Buffer	Percentage of the mixture consisting of ingredient (s) of unknown toxicity: 3.2%
		10X dNTP Mix	Not applicable.
		Cyanine-3-dUTP	Not applicable.
		Cyanine-5-dUTP	Not applicable.
		Cot-1 DNA	Not applicable.
		Alu I	Percentage of the mixture consisting of ingredient (s) of unknown toxicity: 2.9%
		Rsa I	Not applicable.
		10X Restriction Enzyme Buffer	Percentage of the mixture consisting of ingredient (s) of unknown toxicity: 1.6%
		BSA	Percentage of the mixture consisting of ingredient (s) of unknown toxicity: 1%
		Human Reference DNA Male	Not applicable.
		Human Reference DNA Female	Not applicable.
		10 SurePrint G3 human CGH arrays, 1x1M	Percentage of the mixture consisting of ingredient (s) of unknown toxicity: 100%

2.2 GHS label elements

Hazard pictograms



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	Warning
	Random Primers	No signal word.
	5X gDNA Reaction Buffer	Warning
	10X dNTP Mix	No signal word.
	Cyanine-3-dUTP	No signal word.
	Cyanine-5-dUTP	No signal word.

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	Cot-1 DNA	No signal word.
	Alu I	Warning
	Rsa I	Warning
	10X Restriction Enzyme Buffer	No signal word.
	BSA	No signal word.
	Human Reference DNA Male	No signal word.
	Human Reference DNA Female	No signal word.
	10 SurePrint G3 human CGH arrays, 1x1M	No signal word.
Hazard statements	: 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	GHS SYMBOL - Exclamation mark - H319 - Causes serious eye irritation. H315 - Causes skin irritation.
	2X HI-RPM Hybridization Buffer	GHS SYMBOL - Corrosion - Health hazard - H318 - Causes serious eye damage. H315 - Causes skin irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS)) H320 - Causes eye irritation.
	Exo(-) Klenow	No known significant effects or critical hazards.
	Random Primers	GHS SYMBOL - Exclamation mark - H317 - May cause an allergic skin reaction.
	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	H320 - Causes eye irritation.
	Rsa I	GHS SYMBOL - Exclamation mark - H319 - Causes serious eye irritation.
	10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
	BSA	No known significant effects or critical hazards.
	Human Reference DNA Male	No known significant effects or critical hazards.
	Human Reference DNA Female	No known significant effects or critical hazards.
	10 SurePrint G3 human CGH arrays, 1x1M	No known significant effects or critical hazards.
Precautionary statements		
Prevention	: 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	P280 - Wear protective gloves. Wear eye or face protection. P264 - Wash hands thoroughly after handling.
	2X HI-RPM Hybridization Buffer	P280 - Wear protective gloves. Wear eye or face protection. P260 - Do not breathe vapor. P264 - Wash hands thoroughly after handling.
	Exo(-) Klenow	P264 - Wash hands thoroughly after handling.
	Random Primers	Not applicable.
	5X gDNA Reaction Buffer	P280 - Wear protective gloves. P261 - Avoid breathing vapor. P272 (OSHA) - Contaminated work clothing must

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	10X dNTP Mix	not be allowed out of the workplace.
	Cyanine-3-dUTP	Not applicable.
	Cyanine-5-dUTP	Not applicable.
	Cot-1 DNA	Not applicable.
	Alu I	P264 - Wash hands thoroughly after handling.
	Rsa I	P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.
	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.
Response	: 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	P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. P332 + P313 - If skin irritation occurs: Get medical attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
	2X HI-RPM Hybridization Buffer	P314 - Get medical attention if you feel unwell. P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. P332 + P313 - If skin irritation occurs: Get medical attention. P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
	Exo(-) Klenow	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.
	Random Primers	Not applicable.
	5X gDNA Reaction Buffer	P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention.
	10X dNTP Mix	Not applicable.
	Cyanine-3-dUTP	Not applicable.
	Cyanine-5-dUTP	Not applicable.
	Cot-1 DNA	Not applicable.
	Alu I	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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	Rsa I	contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
	10X Restriction Enzyme Buffer	Not applicable.
	BSA	Not applicable.
	Human Reference DNA Male	Not applicable.
	Human Reference DNA Female	Not applicable.
	10 SurePrint G3 human CGH arrays, 1x1M	Not applicable.
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	Not applicable.
	2X HI-RPM Hybridization Buffer	Not applicable.
	Exo(-) Klenow	Not applicable.
	Random Primers	Not applicable.
	5X gDNA Reaction Buffer	Not applicable.
	10X dNTP Mix	Not applicable.
	Cyanine-3-dUTP	Not applicable.
	Cyanine-5-dUTP	Not applicable.
	Cot-1 DNA	Not applicable.
	Alu I	Not applicable.
	Rsa I	Not applicable.
	10X Restriction Enzyme Buffer	Not applicable.
	BSA	Not applicable.
	Human Reference DNA Male	Not applicable.
	Human Reference DNA Female	Not applicable.
	10 SurePrint G3 human CGH arrays, 1x1M	Not applicable.
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	Not applicable.
	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	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	10X dNTP Mix	Not applicable.
	Cyanine-3-dUTP	Not applicable.
	Cyanine-5-dUTP	Not applicable.
	Cot-1 DNA	Not applicable.
	Alu I	Not applicable.
	Rsa I	Not applicable.
	10X Restriction Enzyme Buffer	Not applicable.

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	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	: Nuclease Free Water	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	None known.
	10X aCGH Blocking Agent	None known.
	2X HI-RPM Hybridization Buffer	None known.
	Exo(-) Klenow	None known.
	Random Primers	None known.
	5X gDNA Reaction Buffer	None known.
	10X dNTP Mix	None known.
	Cyanine-3-dUTP	None known.
	Cyanine-5-dUTP	None known.
	Cot-1 DNA	None known.
	Alu I	None known.
	Rsa I	None known.
	10X Restriction Enzyme Buffer	None known.
	BSA	None known.
	Human Reference DNA Male	None known.
	Human Reference DNA Female	None known.
	10 SurePrint G3 human CGH arrays, 1x1M	None known.

2.3 Other hazards

Hazards not otherwise classified

	: 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/information on ingredients

Substance/mixture	:	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 Buffer	Mixture
		BSA	Mixture
		Human Reference DNA Male	Mixture
		Human Reference DNA Female	Mixture
		10 SurePrint G3 human CGH arrays, 1x1M	Mixture

Ingredient name	%	CAS number
Nuclease Free Water		
Water	100	7732-18-5
10X aCGH Blocking Agent		
Trometamol	<10	77-86-1
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	<10	1185-53-1
2X HI-RPM Hybridization Buffer		
4-Morpholineethanesulfonic acid, hydrate (1:1)	≤8.5	145224-94-8
Lithium chloride	≤7	7447-41-8
Lithium dodecyl sulphate	≤4	2044-56-6
Polyoxyethylene octyl phenyl ether	≤3	9002-93-1
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-(trimethylsilyloxy)-1-disiloxanyl]propyl] ether	≤3	134180-76-0
Exo(-) Klenow		
Glycerol	≥50 - ≤75	56-81-5
5X gDNA Reaction Buffer		
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≤5	1185-53-1
2-Mercaptoethanol	<1	60-24-2
Alu I		
Glycerol	≥50 - ≤75	56-81-5
Trisodium citrate	≤3	68-04-2
Rsa I		
Glycerol	≥50 - ≤75	56-81-5
Sodium chloride	≤3	7647-14-5
10X Restriction Enzyme Buffer		
Sodium chloride	≤3	7647-14-5
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≤3	1185-53-1

Section 3. Composition/information on ingredients

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

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

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	: Nuclease Free Water	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	10X aCGH Blocking Agent	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	2X HI-RPM Hybridization Buffer	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
	Exo(-) Klenow	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	Random Primers	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	5X gDNA Reaction Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
	10X dNTP Mix	Immediately flush eyes with plenty of water, 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

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Cot-1 DNA	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Alu I	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
Rsa I	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
10X Restriction Enzyme Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
BSA	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Human Reference DNA Male	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Human Reference DNA Female	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
10 SurePrint G3 human CGH arrays, 1x1M	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	
: Nuclease Free Water	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
10X aCGH Blocking Agent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48

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2X HI-RPM Hybridization Buffer	<p>hours.</p> <p>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.</p>
Exo(-) Klenow	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p>
Random Primers	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p>
5X gDNA Reaction Buffer	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</p>
10X dNTP Mix	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p>
Cyanine-3-dUTP	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p>
Cyanine-5-dUTP	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p>

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

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

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

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

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

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

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

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

: 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	No known significant effects or critical hazards. No known significant effects or critical hazards.
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	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.
Skin 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 skin irritation.
	2X HI-RPM Hybridization Buffer	Causes skin irritation.
	Exo(-) Klenow	No known significant effects or critical hazards.
	Random Primers	No known significant effects or critical hazards.
	5X gDNA Reaction Buffer	May cause an allergic skin reaction.
	10X dNTP Mix	No known significant effects or critical hazards.
	Cyanine-3-dUTP	No known significant effects or critical hazards.
	Cyanine-5-dUTP	No known significant effects or critical hazards.
	Cot-1 DNA	No known significant effects or critical hazards.
	Alu I	No known significant effects or critical hazards.
	Rsa I	No known significant effects or critical hazards.
	10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
	BSA	No known significant effects or critical hazards.
	Human Reference DNA Male	No known significant effects or critical hazards.
	Human Reference DNA Female	No known significant effects or critical hazards.
	10 SurePrint G3 human CGH arrays, 1x1M	No known significant effects or critical hazards.
Ingestion	: 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.

Over-exposure signs/symptoms

Eye contact	: Nuclease Free Water	No specific data.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
	10X aCGH Blocking Agent	Adverse symptoms may include the following: pain or irritation watering redness

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	2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: pain watering redness
	Exo(-) Klenow	Adverse symptoms may include the following: irritation watering redness
	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	Adverse symptoms may include the following: irritation watering redness
	Rsa I	Adverse symptoms may include the following: pain or irritation watering redness
	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.
Inhalation	: Nuclease Free Water	No specific data.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
	10X aCGH Blocking Agent	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.
Skin contact	: Nuclease Free Water	No specific data.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
	10X aCGH Blocking Agent	Adverse symptoms may include the following: irritation redness
	2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following:

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		pain or irritation redness blistering may occur No specific data. No specific data. Adverse symptoms may include the following: irritation redness
	Exo(-) Klenow Random Primers 5X gDNA Reaction Buffer	No specific data. No specific data. No specific data.
	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. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
Ingestion	: Nuclease Free Water Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 10X aCGH Blocking Agent 2X HI-RPM Hybridization Buffer	No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: stomach pains
	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. 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.

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

Notes to physician	: 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.

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2X HI-RPM Hybridization Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Exo(-) Klenow	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Random Primers	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
5X gDNA Reaction Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
10X dNTP Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Cyanine-3-dUTP	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Cyanine-5-dUTP	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Cot-1 DNA	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Alu I	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Rsa I	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
10X Restriction Enzyme Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
BSA	Treat symptomatically. Contact poison treatment 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.

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	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.
Protection of first-aiders	: 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	2X HI-RPM Hybridization Buffer	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	Exo(-) Klenow	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Random Primers	No action shall be taken involving any personal risk or without suitable training.
	5X gDNA Reaction Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	10X dNTP Mix	No action shall be taken involving any personal risk or without suitable training.
	Cyanine-3-dUTP	No action shall be taken involving any personal risk or without suitable training.
	Cyanine-5-dUTP	No action shall be taken involving any personal risk or without suitable training.
	Cot-1 DNA	No action shall be taken involving any personal risk or without suitable training.
	Alu I	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Rsa I	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	10X Restriction Enzyme Buffer	No action shall be taken involving any personal risk or without suitable training.

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BSA	No action shall be taken involving any personal risk or without suitable training.
Human Reference DNA Male	No action shall be taken involving any personal risk or without suitable training.
Human Reference DNA Female	No action shall be taken involving any personal risk or without suitable training.
10 SurePrint G3 human CGH arrays, 1x1M	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

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Unsuitable extinguishing media	: Nuclease Free Water	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	None known.
	10X aCGH Blocking Agent	None known.
	2X HI-RPM Hybridization Buffer	None known.
	Exo(-) Klenow	None known.
	Random Primers	None known.
	5X gDNA Reaction Buffer	None known.
	10X dNTP Mix	None known.
	Cyanine-3-dUTP	None known.
	Cyanine-5-dUTP	None known.
	Cot-1 DNA	None known.
	Alu I	None known.
	Rsa I	None known.
	10X Restriction Enzyme Buffer	None known.
	BSA	None known.
	Human Reference DNA Male	None known.
	Human Reference DNA Female	None known.
	10 SurePrint G3 human CGH arrays, 1x1M	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: Nuclease Free Water	In a fire or if heated, a pressure increase will occur and the container may burst.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	10X aCGH Blocking Agent	No specific fire or explosion hazard.
	2X HI-RPM Hybridization Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	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

Section 5. Fire-fighting measures

Hazardous thermal decomposition products

10 SurePrint G3 human CGH arrays, 1x1M	and the container may burst. No specific fire or explosion hazard.
: Nuclease Free Water	No specific data.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
10X aCGH Blocking Agent	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides halogenated compounds
2X HI-RPM Hybridization Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
Exo(-) Klenow	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Random Primers	No specific data.
5X gDNA Reaction Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
10X dNTP Mix	No specific data.
Cyanine-3-dUTP	No specific data.
Cyanine-5-dUTP	No specific data.
Cot-1 DNA	No specific data.
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:

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Human Reference DNA Male	carbon dioxide
Human Reference DNA Female	carbon monoxide
10 SurePrint G3 human CGH arrays, 1x1M	No specific data.
	No specific data.
	Decomposition products may include the following materials:
	metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

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

Section 5. Fire-fighting measures

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

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.

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

Special protective equipment for fire-fighters

: Nuclease Free Water

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

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

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

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

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

10X aCGH Blocking Agent

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

2X HI-RPM Hybridization Buffer

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

Exo(-) Klenow

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

Random Primers

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

5X gDNA Reaction Buffer

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

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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.

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[6.1 Personal precautions, protective equipment and emergency procedures](#)

For non-emergency personnel

: Nuclease Free Water

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

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

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Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	<p>appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</p>
10X aCGH Blocking Agent	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
2X HI-RPM Hybridization Buffer	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
Exo(-) Klenow	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
Random Primers	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</p>
5X gDNA Reaction Buffer	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</p>
10X dNTP Mix	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</p>
Cyanine-3-dUTP	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on</p>

Section 6. Accidental release measures

Cyanine-5-dUTP	appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
Cot-1 DNA	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
Alu I	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Rsa I	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
10X Restriction Enzyme Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
BSA	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
Human Reference DNA 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 spilled material. Put on appropriate personal protective equipment.
Human Reference DNA Female	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
10 SurePrint G3 human CGH arrays, 1x1M	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not

Section 6. Accidental release measures

For emergency responders : 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

touch or walk through spilled material. Put on appropriate personal protective equipment.

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

If specialized clothing is required to deal with the

Section 6. Accidental release measures

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

6.2 Environmental precautions

: Nuclease Free Water	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
10X aCGH Blocking Agent	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
2X HI-RPM Hybridization Buffer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Exo(-) Klenow	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Random Primers	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
5X gDNA Reaction Buffer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

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10X dNTP Mix	waterways, soil or air). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Cyanine-3-dUTP	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Cyanine-5-dUTP	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Cot-1 DNA	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Alu I	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Rsa I	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
10X Restriction Enzyme Buffer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
BSA	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Human Reference DNA Male	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Human Reference DNA Female	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
10 SurePrint G3 human CGH arrays, 1x1M	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

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

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Cyanine-5-dUTP	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Cot-1 DNA	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Alu I	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Rsa I	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
10X Restriction Enzyme Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
BSA	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Human Reference DNA Male	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Human Reference DNA Female	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
10 SurePrint G3 human CGH arrays, 1x1M	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

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. 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 vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Random Primers	Put on appropriate personal protective equipment (see Section 8).
	5X gDNA Reaction Buffer	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	10X dNTP Mix	Put on appropriate personal protective equipment (see Section 8).
	Cyanine-3-dUTP	Put on appropriate personal protective equipment (see Section 8).
	Cyanine-5-dUTP	Put on appropriate personal protective equipment (see Section 8).
	Cot-1 DNA	Put on appropriate personal protective equipment (see Section 8).
	Alu I	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept

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Advice on general occupational hygiene

Rsa I	tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
10X Restriction Enzyme Buffer	Put on appropriate personal protective equipment (see Section 8).
BSA	Put on appropriate personal protective equipment (see Section 8).
Human Reference DNA Male	Put on appropriate personal protective equipment (see Section 8).
Human Reference DNA Female	Put on appropriate personal protective equipment (see Section 8).
10 SurePrint G3 human CGH arrays, 1x1M	Put on appropriate personal protective equipment (see Section 8).
: 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

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

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

7.2 Conditions for safe storage, including any incompatibilities

: Nuclease Free Water	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Agilent Oligo aCGH/ChIP-on-Chip	Store in accordance with local regulations. Store in

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Wash Buffer 2	original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
10X aCGH Blocking Agent	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
2X HI-RPM Hybridization Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
5X gDNA Reaction Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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10X dNTP Mix

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

Cyanine-3-dUTP

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

Cyanine-5-dUTP

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

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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

Alu I

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

Rsa I

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

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

[7.3 Specific end use\(s\)](#)

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
10X aCGH Blocking Agent Trometamol 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	None. None.
2X HI-RPM Hybridization Buffer 4-Morpholineethanesulfonic acid, hydrate (1:1) Lithium chloride Lithium dodecyl sulphate Polyoxyethylene octyl phenyl ether Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether	None. None. None. None. None.
Exo(-) Klenow Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust
5X gDNA Reaction Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride 2-Mercaptoethanol	None. AIHA WEEL (United States, 10/2011). Absorbed through skin. TWA: 0.2 ppm 8 hours.
Alu I Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust
Trisodium citrate	None.
Rsa I Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust
Sodium chloride	None.
10X Restriction Enzyme Buffer Sodium chloride 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	None. None.

8.2 Exposure controls

Section 8. Exposure controls/personal protection

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- Individual protection measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Nuclease Free Water	Liquid.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Liquid.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Liquid.
	10X aCGH Blocking Agent	Solid. [lyophilized pellets]
	2X HI-RPM Hybridization Buffer	Liquid.
	Exo(-) Klenow	Liquid.
	Random Primers	Liquid.
	5X gDNA Reaction Buffer	Liquid.
	10X dNTP Mix	Liquid.
	Cyanine-3-dUTP	Liquid.
	Cyanine-5-dUTP	Liquid.

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	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]
Color	: 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.
Odor	: 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.

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Odor threshold	:	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.
	pH	:	Nuclease Free Water
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	8.2 to 8.6
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	8 to 8.4
		10X aCGH Blocking Agent	Not available.
		2X HI-RPM Hybridization Buffer	6.1
		Exo(-) Klenow	7.5
		Random Primers	8
		5X gDNA Reaction Buffer	7.5
		10X dNTP Mix	8
		Cyanine-3-dUTP	7.6
		Cyanine-5-dUTP	7.6
		Cot-1 DNA	7.4
		Alu I	7.4
		Rsa I	7.4
		10X Restriction Enzyme Buffer	8.2
		BSA	Not available.
		Human Reference DNA Male	8
		Human Reference DNA Female	8
		10 SurePrint G3 human CGH arrays, 1x1M	Not available.
Melting point		:	Nuclease Free Water
		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)

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	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	0°C (32°F)
	Human Reference DNA Male	0°C (32°F)
	Human Reference DNA Female	0°C (32°F)
	10 SurePrint G3 human CGH arrays, 1x1M	Not available.
Boiling point	: Nuclease Free Water	100°C (212°F)
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	100°C (212°F)
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	100°C (212°F)
	10X aCGH Blocking Agent	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	Exo(-) Klenow	Not available.
	Random Primers	100°C (212°F)
	5X gDNA Reaction Buffer	100°C (212°F)
	10X dNTP Mix	100°C (212°F)
	Cyanine-3-dUTP	100°C (212°F)
	Cyanine-5-dUTP	100°C (212°F)
	Cot-1 DNA	100°C (212°F)
	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.
Flash point	: 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.

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Evaporation rate	:	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.
	Flammability (solid, gas)	:	Nuclease Free Water
		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 available.
		2X HI-RPM Hybridization Buffer	Not applicable.
		Exo(-) Klenow	Not applicable.
		Random Primers	Not applicable.
		5X gDNA Reaction Buffer	Not applicable.
		10X dNTP Mix	Not applicable.
		Cyanine-3-dUTP	Not applicable.
		Cyanine-5-dUTP	Not applicable.
		Cot-1 DNA	Not applicable.
		Alu I	Not applicable.
		Rsa I	Not applicable.
		10X Restriction Enzyme Buffer	Not applicable.
		BSA	Not applicable.
		Human Reference DNA Male	Not applicable.
		Human Reference DNA Female	Not applicable.
		10 SurePrint G3 human CGH arrays, 1x1M	Not available.
Lower and upper explosive (flammable) limits		:	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.

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

Section 9. Physical and chemical properties

Relative density	: 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.
	Solubility	: Nuclease Free Water
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1		Easily soluble in the following materials: cold water and hot water.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2		Easily soluble in the following materials: cold water and hot water.
10X aCGH Blocking Agent		Soluble in the following materials: cold water and hot water.
2X HI-RPM Hybridization Buffer		Soluble in the following materials: cold water and hot water.
Exo(-) Klenow		Soluble in the following materials: cold water and hot water.
Random Primers		Easily soluble in the following materials: cold water and hot water.
5X gDNA Reaction Buffer		Easily soluble in the following materials: cold water and hot water.
10X dNTP Mix		Easily soluble in the following materials: cold water and hot water.
Cyanine-3-dUTP		Easily soluble in the following materials: cold water and hot water.
Cyanine-5-dUTP		Easily soluble in the following materials: cold water and hot water.
Cot-1 DNA		Easily soluble in the following materials: cold water and hot water.
Alu I		Soluble in the following materials: cold water and hot water.
Rsa I		Soluble in the following materials: cold water and hot water.
10X Restriction Enzyme Buffer		Easily soluble in the following materials: cold water and hot water.
BSA		Easily soluble in the following materials: cold water and hot water.
Human Reference DNA Male		Easily soluble in the following materials: cold water and hot water.
Human Reference DNA Female		Easily soluble in the following materials: cold water and hot water.

Section 9. Physical and chemical properties

	10 SurePrint G3 human CGH arrays, 1x1M	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: 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.	
Auto-ignition temperature	: 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.	
Decomposition temperature	: 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.

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.
Viscosity	: 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

10.1 Reactivity	: 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.
	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.

Section 10. Stability and reactivity

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.

10.2 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.

10.3 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, hazardous reactions will not occur.
2X HI-RPM Hybridization Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
Exo(-) Klenow	Under normal conditions of storage and use, hazardous reactions will not occur.
Random Primers	Under normal conditions of storage and use, hazardous reactions will not occur.
5X gDNA Reaction Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
10X dNTP Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
Cyanine-3-dUTP	Under normal conditions of storage and use, hazardous reactions will not occur.

Section 10. Stability and reactivity

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.

10.4 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.

10.5 Incompatible materials	: Nuclease Free Water	May react or be incompatible with oxidizing materials.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	May react or be incompatible with oxidizing materials.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	May react or be incompatible with oxidizing materials.
	10X aCGH Blocking Agent	May react or be incompatible with oxidizing materials.
	2X HI-RPM Hybridization Buffer	May react or be incompatible with oxidizing materials.
	Exo(-) Klenow	May react or be incompatible with oxidizing materials.
	Random Primers	May react or be incompatible with oxidizing materials.
	5X gDNA Reaction Buffer	May react or be incompatible with oxidizing materials.

Section 10. Stability and reactivity

10X dNTP Mix	May react or be incompatible with oxidizing materials.
Cyanine-3-dUTP	May react or be incompatible with oxidizing materials.
Cyanine-5-dUTP	May react or be incompatible with oxidizing materials.
Cot-1 DNA	May react or be incompatible with oxidizing materials.
Alu I	May react or be incompatible with oxidizing materials.
Rsa I	May react or be incompatible with oxidizing materials.
10X Restriction Enzyme Buffer	May react or be incompatible with oxidizing materials.
BSA	May react or be incompatible with oxidizing materials.
Human Reference DNA Male	May react or be incompatible with oxidizing materials.
Human Reference DNA Female	May react or be incompatible with oxidizing materials.
10 SurePrint G3 human CGH arrays, 1x1M	May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	
: 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.

Section 10. Stability and reactivity

Alu I	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Rsa I	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10X Restriction Enzyme Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
BSA	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Human Reference DNA Male	Under normal conditions of storage and use, hazardous decomposition products should not be 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

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
10X aCGH Blocking Agent Trometamol	LD50 Dermal LD50 Oral	Rat Rat	>5000 mg/kg 5000 mg/kg	- -
2X HI-RPM Hybridization Buffer Lithium chloride	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	1629 mg/kg 1488 mg/kg 526 mg/kg	- - -
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether	LC50 Inhalation Dusts and mists	Rat	1.08 mg/l	4 hours
Exo(-) Klenow Glycerol	LD50 Dermal LD50 Oral	Rabbit Rat	1550 mg/kg 3200 mg/kg	- -
5X gDNA Reaction Buffer 2-Mercaptoethanol	LD50 Oral	Rat	12600 mg/kg	-
5X gDNA Reaction Buffer 2-Mercaptoethanol	LD50 Dermal LD50 Oral	Rabbit Rat	200 mg/kg 244 mg/kg	- -
Alu I Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Rsa I Glycerol Sodium chloride	LD50 Oral LD50 Oral	Rat Rat	12600 mg/kg 3000 mg/kg	- -

Section 11. Toxicological information

10X Restriction Enzyme Buffer Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
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Irritation/Corrosion

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

Section 11. Toxicological information

	Eyes - Moderate irritant Skin - Mild irritant	Rabbit Rabbit	- -	10 milligrams 24 hours 500 milligrams	- -
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Sensitization

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

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
10X aCGH Blocking Agent Trometamol	Category 3	Not applicable.	Respiratory tract irritation
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
2X HI-RPM Hybridization Buffer 4-Morpholineethanesulfonic acid, hydrate (1:1)	Category 3	Not applicable.	Respiratory tract irritation
Lithium chloride	Category 3	Not applicable.	Respiratory tract irritation
Lithium dodecyl sulphate	Category 3	Not applicable.	Respiratory tract irritation
5X gDNA Reaction Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
2-Mercaptoethanol	Category 3	Not applicable.	Respiratory tract irritation
10X Restriction Enzyme Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
2X HI-RPM Hybridization Buffer Lithium chloride	Category 2	Oral	central nervous system (CNS)

Aspiration hazard

Not available.

Information on the 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	Causes eye irritation.
Random Primers	No known significant effects or critical hazards.
5X gDNA Reaction Buffer	No known significant effects or critical hazards.
10X dNTP Mix	No known significant effects or critical hazards.
Cyanine-3-dUTP	No known significant effects or critical hazards.
Cyanine-5-dUTP	No known significant effects or critical hazards.
Cot-1 DNA	No known significant effects or critical hazards.
Alu I	Causes eye irritation.
Rsa I	Causes serious eye irritation.
10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
BSA	No known significant effects or critical hazards.

Section 11. Toxicological information

	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.
Inhalation	: 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.
Skin 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 skin irritation.
	2X HI-RPM Hybridization Buffer	Causes skin irritation.
	Exo(-) Klenow	No known significant effects or critical hazards.
	Random Primers	No known significant effects or critical hazards.
	5X gDNA Reaction Buffer	May cause an allergic skin reaction.
	10X dNTP Mix	No known significant effects or critical hazards.
	Cyanine-3-dUTP	No known significant effects or critical hazards.
	Cyanine-5-dUTP	No known significant effects or critical hazards.
	Cot-1 DNA	No known significant effects or critical hazards.
	Alu I	No known significant effects or critical hazards.
	Rsa I	No known significant effects or critical hazards.
	10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
	BSA	No known significant effects or critical hazards.
	Human Reference DNA Male	No known significant effects or critical hazards.
	Human Reference DNA Female	No known significant effects or critical hazards.
	10 SurePrint G3 human CGH arrays, 1x1M	No known significant effects or critical hazards.
Ingestion	: 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.

Section 11. Toxicological information

Cyanine-3-dUTP	No known significant effects or critical hazards.
Cyanine-5-dUTP	No known significant effects or critical hazards.
Cot-1 DNA	No known significant effects or critical hazards.
Alu I	No known significant effects or critical hazards.
Rsa I	No known significant effects or critical hazards.
10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
BSA	No known significant effects or critical hazards.
Human Reference DNA Male	No known significant effects or critical hazards.
Human Reference DNA Female	No known significant effects or critical hazards.
10 SurePrint G3 human CGH arrays, 1x1M	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: Nuclease Free Water	No specific data.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
10X aCGH Blocking Agent	Adverse symptoms may include the following: pain or irritation watering redness
2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: pain watering redness
Exo(-) Klenow	Adverse symptoms may include the following: irritation watering redness
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	Adverse symptoms may include the following: irritation watering redness
Rsa I	Adverse symptoms may include the following: pain or irritation watering redness
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.
: 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.

Inhalation

Section 11. Toxicological information

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

Section 11. Toxicological information

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

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

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

Section 11. Toxicological information

	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.
Mutagenicity	: 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.
Teratogenicity	: 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.

Section 11. Toxicological information

Oral	171446.4 mg/kg
10X Restriction Enzyme Buffer	
Oral	103448.3 mg/kg

Other information	:	Nuclease Free Water	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
		10X aCGH Blocking Agent	Not available.
		2X HI-RPM Hybridization Buffer	Not available.
		Exo(-) Klenow	Not available.
		Random Primers	Not available.
		5X gDNA Reaction Buffer	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 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
10X aCGH Blocking Agent Trometamol	Acute EC50 >980 mg/l Fresh water Acute NOEC 520 mg/l Fresh water	Daphnia Daphnia	48 hours 48 hours
2X HI-RPM Hybridization Buffer Lithium chloride Polyoxyethylene octyl phenyl ether	Acute LC50 22000 µg/l Fresh water Acute LC50 5.85 mg/l Fresh water Acute LC50 11.2 mg/l Fresh water	Fish - Gila elegans - Swim-up Crustaceans - Ceriodaphnia rigaudi - Neonate Daphnia - Daphnia magna - Neonate	96 hours 48 hours 48 hours
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether	Acute LC50 4500 µg/l Fresh water EC50 28.2 mg/l EC50 1.1 mg/l LC50 2.1 mg/l	Fish - Pimephales promelas Algae Daphnia Fish	96 hours 72 hours 48 hours 96 hours
Exo(-) Klenow Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Alu I Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Section 12. Ecological information

Trisodium citrate	Acute EC50 735.54 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
Rsa I			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 28.85 mg/dm ³ Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1661 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
10X Restriction Enzyme Buffer			
Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 28.85 mg/dm ³ Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1661 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2X HI-RPM Hybridization Buffer			
Lithium chloride	-	-	Readily
Polyoxyethylene octyl phenyl ether	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
10X aCGH Blocking Agent			
Trometamol	-1.56	-	low
2X HI-RPM Hybridization Buffer			
Polyoxyethylene octyl phenyl ether	4.86	-	high
Exo(-) Klenow			
Glycerol	-1.76	-	low

Section 12. Ecological information

5X gDNA Reaction Buffer 2-Mercaptoethanol	-0.056	-	low
Alu I Glycerol	-1.76	-	low
Rsa I Glycerol	-1.76	-	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

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

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

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

Section 14. Transport information

Regulatory information

DOT / IMDG / IATA : Not regulated.

Section 15. Regulatory information

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

U.S. Federal regulations : **TSCA 8(a) PAIR**: Polyoxyethylene octyl phenyl ether
United States inventory (TSCA 8b): Not determined.
Clean Water Act (CWA) 311: Sodium hydroxide; Edetic acid

Section 15. Regulatory information

Clean Air Act Section 112 : Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard
Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
10X aCGH Blocking Agent						
Trometamol	<10	Yes.	No.	No.	Yes.	No.
2-Amino-2-(hydroxymethyl)propane-1, 3-diol hydrochloride	<10	No.	No.	No.	Yes.	No.
2X HI-RPM Hybridization Buffer						
4-Morpholineethanesulfonic acid, hydrate (1:1)	≤8.5	Yes.	No.	No.	Yes.	No.
Lithium chloride	≤7	No.	No.	No.	Yes.	Yes.
Lithium dodecyl sulphate	≤4	Yes.	No.	No.	Yes.	No.
Polyoxyethylene octyl phenyl ether	≤3	No.	No.	No.	Yes.	No.
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether	≤3	No.	No.	No.	Yes.	No.
Exo(-) Klenow						
Glycerol	≥50 - ≤75	No.	No.	No.	Yes.	No.
5X gDNA Reaction Buffer						
2-Amino-2-(hydroxymethyl)propane-1, 3-diol hydrochloride	≤5	No.	No.	No.	Yes.	No.
2-Mercaptoethanol	<1	Yes.	No.	No.	Yes.	No.
Alu I						
Glycerol	≥50 - ≤75	No.	No.	No.	Yes.	No.
Trisodium citrate	≤3	Yes.	No.	No.	Yes.	No.
Rsa I						
Glycerol	≥50 - ≤75	No.	No.	No.	Yes.	No.

Section 15. Regulatory information

Sodium chloride	≤3	No.	No.	No.	Yes.	No.
10X Restriction Enzyme Buffer						
Sodium chloride	≤3	No.	No.	No.	Yes.	No.
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≤3	No.	No.	No.	Yes.	No.

State regulations

- Massachusetts** : The following components are listed: GLYCERINE MIST
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL
- Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL
- California Prop. 65**

No products were found.

Canada inventory : Not determined.

International regulations

- International lists** :
- Australia inventory (AICS)**: Not determined.
 - China inventory (IECSC)**: Not determined.
 - Japan inventory (ENCS)**: Not determined.
 - Japan inventory (ISHL)**: Not determined.
 - Korea inventory**: Not determined.
 - Malaysia Inventory (EHS Register)**: Not determined.
 - New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
 - Philippines inventory (PICCS)**: Not determined.
 - Taiwan Chemical Substances Inventory (TCSI)**: Not determined.
 - Turkey inventory**: Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

Section 16. Other information

History

- Date of issue** : 06/10/2016
- Date of previous issue** : 01/22/2014.
- Version** : 3

✔ Indicates information that has changed from previously issued version.

Notice to reader

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