Conforms to US OSHA Hazard Communication 29CFR1910.1200

SAFETY DATA SHEET

Agilent Technologies

SurePrint G3 CGH/CGH+SNP 2x400K Bundle, Part Number G5921A

Section 1. Identification

1.1 Product identifier

Product name : SurePrint G3 CGH/CGH+SNP 2x400K Bundle, Part Number G5921A

Part No. (Chemical Kit) : G5921A

Part No. :

Nuclease Free Water	5190-0439
Random Primers	5190-0441
5X gDNA Reaction Buffer	5190-3387
Alu I Restriction Digest Enzyme (10 U/ul)	5190-3394
Rsa I Restriction Digest Enzyme (10 U/ul)	5190-3395
10X Restriction Enzyme Buffer	5190-3396
BSA	5190-3397
10X dNTP Mix	5190-3388
Exo(-) Klenow	5190-0437
Cyanine-3-dUTP	5190-3389
Cyanine-5-dUTP	5190-3390
Human Reference DNA, Male (0.2 ug/ul)	5190-4370
Human Reference DNA, Female (0.2 ug/ul)	5190-4371
2X HI-RPM Hybridization Buffer	5188-6417
10X aCGH Blocking Agent	5188-6416
Cot-1 DNA (1 ug/ul)	5190-3392
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	5188-5221
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	5188-5222
In Situ DNA Microarray, 2x400K	G4848A, G4849A, G4850A, G4865A, G4883A, G4856A, G4842A, G4903A, G4861A, G4448-60510, G4507-60510, G4825A, G4124A, G4829A, G5935A, G5956A, G5957A, G5975A, G5974A

Validation date : 10/2/2017

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
Random Primers	2 x 265 µl
5X gDNA Reaction Buffer	2 x 550 µl
Alu I	2 x (10 U/µl 28 µl)
Rsa I	2 x (10 U/µl 28 µl)
10X Restriction Enzyme Buffer	2 x 142 µl
BSA	2 x 15 µl
10X dNTP Mix	2 x 265 µl
Exo(-) Klenow	2 x 55 µl
Cyanine-3-dUTP	2 x 78 µl
Cyanine-5-dUTP	2 x 78 µl
Human Reference DNA Male	2 x 125 µl 0.2 µg/µl
Human Reference DNA Female	2 x 125 µl 0.2 µg/µl
2X HI-RPM Hybridization Buffer	1400 µl
10X aCGH Blocking Agent	25 Hybs lyophilized pellets
Cot-I DNA	2 x 625 µl 1 µg/µl
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	4 L
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	4 L
In Situ DNA Microarray, 2x400K	Not available.

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.
	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).
	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.
	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.
	Exo(-) Klenow	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	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.
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.
2X HI-RPM Hybridization Buffer	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
10X aCGH Blocking Agent	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
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.
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.
In Situ DNA Microarray, 2x400K	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

5X gDNA Reaction Buffer

H317 SKIN SENSITIZATION - Category 1

Alu I

H320 EYE IRRITATION - Category 2B

Rsa I

H319 EYE IRRITATION - Category 2A

Exo(-) Klenow

H320 EYE IRRITATION - Category 2B

2X HI-RPM Hybridization Buffer

H315 SKIN IRRITATION - Category 2

H319 EYE IRRITATION - Category 2A

Section 2. Hazards identification

H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 2

10X aCGH Blocking Agent

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

In Situ DNA Microarray, 2x400K

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

Ingredients of unknown toxicity :

5X gDNA Reaction Buffer	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
Alu I	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
Rsa I	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
10X Restriction Enzyme Buffer	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
BSA	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
Exo(-) Klenow	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
2X HI-RPM Hybridization Buffer	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 10 - 30% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
10X aCGH Blocking Agent	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 10 - 30% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: > 60% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 10 - 30%
In Situ DNA Microarray, 2x400K	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: > 60% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: > 60%

Section 2. Hazards identification

2.2 GHS label elements

Hazard pictograms :

5X gDNA Reaction Buffer

Rsa I

2X HI-RPM Hybridization Buffer

10X aCGH Blocking Agent

In Situ DNA Microarray, 2x400K

Signal word :

Nuclease-Free Water	No signal word.
Random Primers	No signal word.
5X gDNA Reaction Buffer	Warning
Alu I	Warning
Rsa I	Warning
10X Restriction Enzyme Buffer	No signal word.
BSA	No signal word.
10X dNTP Mix	No signal word.
Exo(-) Klenow	Warning
Cyanine-3-dUTP	No signal word.
Cyanine-5-dUTP	No signal word.
Human Reference DNA Male	No signal word.
Human Reference DNA Female	No signal word.
2X HI-RPM Hybridization Buffer	Warning
10X aCGH Blocking Agent	Warning
Cot-1 DNA	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.
In Situ DNA Microarray, 2x400K	Warning

Hazard statements :

Nuclease-Free Water	No known significant effects or critical hazards.
Random Primers	No known significant effects or critical hazards.
5X gDNA Reaction Buffer	H317 - May cause an allergic skin reaction.
Alu I	H320 - Causes eye irritation.
Rsa I	H319 - Causes serious eye irritation.
10X Restriction Enzyme Buffer	No known significant effects or critical hazards.
BSA	No known significant effects or critical hazards.
10X dNTP Mix	No known significant effects or critical hazards.
Exo(-) Klenow	H320 - Causes eye irritation.
Cyanine-3-dUTP	No known significant effects or critical hazards.
Cyanine-5-dUTP	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.
2X HI-RPM Hybridization Buffer	H319 - Causes serious eye irritation. H315 - Causes skin irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS))
10X aCGH Blocking Agent	H319 - Causes serious eye irritation. H315 - Causes skin irritation. H335 - May cause respiratory irritation.
Cot-1 DNA	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.
In Situ DNA Microarray, 2x400K	H319 - Causes serious eye irritation. H315 - Causes skin irritation. H335 - May cause respiratory irritation.

Precautionary statements

Prevention :

Nuclease-Free Water	Not applicable.
Random Primers	Not applicable.
5X gDNA Reaction Buffer	P280 - Wear protective gloves. P261 - Avoid breathing vapor. P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace.
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.
10X dNTP Mix	Not applicable.
Exo(-) Klenow	P264 - Wash hands thoroughly after handling.
Cyanine-3-dUTP	Not applicable.
Cyanine-5-dUTP	Not applicable.
Human Reference DNA Male	Not applicable.
Human Reference DNA Female	Not applicable.
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.
10X aCGH Blocking Agent	P280 - Wear protective gloves. Wear eye or face protection. P271 - Use only outdoors or in a well-ventilated area. P261 - Avoid breathing dust. P264 - Wash hands thoroughly after handling.
Cot-1 DNA	Not applicable.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not applicable.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not applicable.
In Situ DNA Microarray, 2x400K	P280 - Wear protective gloves. Wear eye or face protection. P271 - Use only outdoors or in a well-ventilated area. P261 - Avoid breathing dust. P264 - Wash hands thoroughly after handling.

Section 2. Hazards identification

Response	:	Nuclease-Free Water	Not applicable.
		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.
		Alu I	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.
		Rsa I	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.
		10X dNTP Mix	Not applicable.
		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.
		Cyanine-3-dUTP	Not applicable.
		Cyanine-5-dUTP	Not applicable.
		Human Reference DNA Male	Not applicable.
		Human Reference DNA Female	Not applicable.
		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 - 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 aCGH Blocking Agent	P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. P332 + P313 - If skin irritation occurs: Get medical attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.

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	Cot-1 DNA	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not applicable.
	In Situ DNA Microarray, 2x400K	P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. P332 + P313 - If skin irritation occurs: Get medical attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
Storage :	Nuclease-Free Water	Not applicable.
	Random Primers	Not applicable.
	5X gDNA Reaction Buffer	Not applicable.
	Alu I	Not applicable.
	Rsa I	Not applicable.
	10X Restriction Enzyme Buffer	Not applicable.
	BSA	Not applicable.
	10X dNTP Mix	Not applicable.
	Exo(-) Klenow	Not applicable.
	Cyanine-3-dUTP	Not applicable.
	Cyanine-5-dUTP	Not applicable.
	Human Reference DNA Male	Not applicable.
	Human Reference DNA Female	Not applicable.
	2X HI-RPM Hybridization Buffer	Not applicable.
	10X aCGH Blocking Agent	P405 - Store locked up.
	Cot-1 DNA	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not applicable.
	In Situ DNA Microarray, 2x400K	P405 - Store locked up.
Disposal :	Nuclease-Free Water	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.
	Alu I	Not applicable.
	Rsa I	Not applicable.
	10X Restriction Enzyme Buffer	Not applicable.
	BSA	Not applicable.
	10X dNTP Mix	Not applicable.
	Exo(-) Klenow	Not applicable.
	Cyanine-3-dUTP	Not applicable.
	Cyanine-5-dUTP	Not applicable.
	Human Reference DNA Male	Not applicable.
	Human Reference DNA Female	Not applicable.
	2X HI-RPM Hybridization Buffer	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

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	10X aCGH Blocking Agent	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	Cot-1 DNA	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not applicable.
	In Situ DNA Microarray, 2x400K	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements :	Nuclease-Free Water	None known.
	Random Primers	None known.
	5X gDNA Reaction Buffer	None known.
	Alu I	None known.
	Rsa I	None known.
	10X Restriction Enzyme Buffer	None known.
	BSA	None known.
	10X dNTP Mix	None known.
	Exo(-) Klenow	None known.
	Cyanine-3-dUTP	None known.
	Cyanine-5-dUTP	None known.
	Human Reference DNA Male	None known.
	Human Reference DNA Female	None known.
	2X HI-RPM Hybridization Buffer	None known.
	10X aCGH Blocking Agent	None known.
	Cot-1 DNA	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	None known.
	In Situ DNA Microarray, 2x400K	None known.

2.3 Other hazards

Hazards not otherwise classified :	Nuclease-Free Water	None known.
	Random Primers	None known.
	5X gDNA Reaction Buffer	None known.
	Alu I	None known.
	Rsa I	None known.
	10X Restriction Enzyme Buffer	None known.
	BSA	None known.
	10X dNTP Mix	None known.
	Exo(-) Klenow	None known.
	Cyanine-3-dUTP	None known.
	Cyanine-5-dUTP	None known.
	Human Reference DNA Male	None known.
	Human Reference DNA Female	None known.
	2X HI-RPM Hybridization Buffer	None known.
	10X aCGH Blocking Agent	None known.
	Cot-1 DNA	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	None known.
	In Situ DNA Microarray, 2x400K	None known.

Section 3. Composition/information on ingredients

Substance/mixture : Nuclease-Free Water — Substance

Random Primers	Mixture
5X gDNA Reaction Buffer	Mixture
Alu I	Mixture
Rsa I	Mixture
10X Restriction Enzyme Buffer	Mixture
BSA	Mixture
10X dNTP Mix	Mixture
Exo(-) Klenow	Mixture
Cyanine-3-dUTP	Mixture
Cyanine-5-dUTP	Mixture
Human Reference DNA Male	Mixture
Human Reference DNA Female	Mixture
2X HI-RPM Hybridization Buffer	Mixture
10X aCGH Blocking Agent	Mixture
Cot-1 DNA	Mixture
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Mixture
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Mixture
In Situ DNA Microarray, 2x400K	Mixture

Ingredient name	%	CAS number
Nuclease-Free Water		
Water	100	7732-18-5
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
Exo(-) Klenow		
Glycerol	≥50 - ≤75	56-81-5
2X HI-RPM Hybridization Buffer		
4-Morpholineethanesulfonic acid, hydrate (1:1)	≤8.7	145224-94-8
Lithium chloride	≤7.1	7447-41-8
Lithium dodecyl sulphate	≤3.6	2044-56-6
Polyoxyethylene octyl phenyl ether	≤2.4	9002-93-1
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether	≤3	134180-76-0
10X aCGH Blocking Agent		
Trometamol	≥10 - ≤25	77-86-1
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≥10 - ≤25	1185-53-1

Section 3. Composition/information on ingredients

In Situ DNA Microarray, 2x400K Sodium silicate	≥90	15859-24-2

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

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

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact :

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

Section 4. First aid measures

			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.
		2X HI-RPM Hybridization 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.
		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.
		Cot-1 DNA	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
		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.
		In Situ DNA Microarray, 2x400K	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.
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.
		Random Primers	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		5X gDNA Reaction Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		Alu I	Remove victim to fresh air and keep at rest in a

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	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.
10X dNTP Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Exo(-) Klenow	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Cyanine-3-dUTP	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Cyanine-5-dUTP	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
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

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	attention if symptoms occur.
2X HI-RPM Hybridization Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. 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.
10X aCGH Blocking Agent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Cot-1 DNA	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.
In Situ DNA Microarray, 2x400K	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Skin contact	:	Nuclease-Free Water	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Random Primers	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		5X gDNA Reaction Buffer	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.
		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.
		10X dNTP Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		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.
		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.
		Human Reference DNA Male	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		Human Reference DNA Female	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		2X HI-RPM Hybridization Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
		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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			Clean shoes thoroughly before reuse.
		Cot-1 DNA	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.
		In Situ DNA Microarray, 2x400K	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
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.
		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.
		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

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	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.
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.
Exo(-) Klenow	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.
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

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	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.
Human Reference DNA Male	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Human Reference DNA Female	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
2X HI-RPM Hybridization 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 following exposure or if feeling unwell. 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 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.
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

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	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.
In Situ DNA Microarray, 2x400K	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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: Nuclease-Free Water	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.
	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.
	10X dNTP Mix	No known significant effects or critical hazards.
	Exo(-) Klenow	Causes eye irritation.
	Cyanine-3-dUTP	No known significant effects or critical hazards.
	Cyanine-5-dUTP	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.
	2X HI-RPM Hybridization Buffer	Causes serious eye irritation.
	10X aCGH Blocking Agent	Causes serious eye irritation.
	Cot-1 DNA	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.
	In Situ DNA Microarray, 2x400K	Causes serious eye irritation.

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Inhalation	:	Nuclease-Free Water	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.
		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.
		10X dNTP Mix	No known significant effects or critical hazards.
		Exo(-) Klenow	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.
		Human Reference DNA Male	No known significant effects or critical hazards.
		Human Reference DNA Female	No known significant effects or critical hazards.
		2X HI-RPM Hybridization Buffer	No known significant effects or critical hazards.
		10X aCGH Blocking Agent	May cause respiratory irritation.
		Cot-1 DNA	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.
		In Situ DNA Microarray, 2x400K	May cause respiratory irritation.
Skin contact	:	Nuclease-Free Water	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.
		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.
		10X dNTP Mix	No known significant effects or critical hazards.
		Exo(-) Klenow	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.
		Human Reference DNA Male	No known significant effects or critical hazards.
		Human Reference DNA Female	No known significant effects or critical hazards.
		2X HI-RPM Hybridization Buffer	Causes skin irritation.
		10X aCGH Blocking Agent	Causes skin irritation.
		Cot-1 DNA	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.
		In Situ DNA Microarray, 2x400K	Causes skin irritation.
Ingestion	:	Nuclease-Free Water	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.
		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.
		10X dNTP Mix	No known significant effects or critical hazards.
		Exo(-) Klenow	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.
		Human Reference DNA Male	No known significant effects or critical hazards.
		Human Reference DNA Female	No known significant effects or critical hazards.
		2X HI-RPM Hybridization Buffer	No known significant effects or critical hazards.
		10X aCGH Blocking Agent	No known significant effects or critical hazards.
		Cot-1 DNA	No known significant effects or critical hazards.
		Agilent Oligo aCGH/ChIP-on-Chip	No known significant effects or critical hazards.

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Wash Buffer 1	
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No known significant effects or critical hazards.
In Situ DNA Microarray, 2x400K	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact :

Nuclease-Free Water	No specific data.
Random Primers	No specific data.
5X gDNA Reaction Buffer	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.
10X dNTP Mix	No specific data.
Exo(-) Klenow	Adverse symptoms may include the following: irritation watering redness
Cyanine-3-dUTP	No specific data.
Cyanine-5-dUTP	No specific data.
Human Reference DNA Male	No specific data.
Human Reference DNA Female	No specific data.
2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: pain or irritation watering redness
10X aCGH Blocking Agent	Adverse symptoms may include the following: pain or irritation watering redness
Cot-1 DNA	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.
In Situ DNA Microarray, 2x400K	Adverse symptoms may include the following: pain or irritation watering redness

Inhalation :

Nuclease-Free Water	No specific data.
Random Primers	No specific data.
5X gDNA Reaction Buffer	No specific data.
Alu I	No specific data.
Rsa I	No specific data.
10X Restriction Enzyme Buffer	No specific data.
BSA	No specific data.
10X dNTP Mix	No specific data.
Exo(-) Klenow	No specific data.
Cyanine-3-dUTP	No specific data.
Cyanine-5-dUTP	No specific data.
Human Reference DNA Male	No specific data.
Human Reference DNA Female	No specific data.
2X HI-RPM Hybridization Buffer	No specific data.
10X aCGH Blocking Agent	Adverse symptoms may include the following:

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		respiratory tract irritation coughing
	Cot-1 DNA	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.
	In Situ DNA Microarray, 2x400K	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact :	Nuclease-Free Water	No specific data.
	Random Primers	No specific data.
	5X gDNA Reaction Buffer	Adverse symptoms may include the following: irritation redness
	Alu I	No specific data.
	Rsa I	No specific data.
	10X Restriction Enzyme Buffer	No specific data.
	BSA	No specific data.
	10X dNTP Mix	No specific data.
	Exo(-) Klenow	No specific data.
	Cyanine-3-dUTP	No specific data.
	Cyanine-5-dUTP	No specific data.
	Human Reference DNA Male	No specific data.
	Human Reference DNA Female	No specific data.
	2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: irritation redness
	10X aCGH Blocking Agent	Adverse symptoms may include the following: irritation redness
	Cot-1 DNA	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.
	In Situ DNA Microarray, 2x400K	Adverse symptoms may include the following: irritation redness
Ingestion :	Nuclease-Free Water	No specific data.
	Random Primers	No specific data.
	5X gDNA Reaction Buffer	No specific data.
	Alu I	No specific data.
	Rsa I	No specific data.
	10X Restriction Enzyme Buffer	No specific data.
	BSA	No specific data.
	10X dNTP Mix	No specific data.
	Exo(-) Klenow	No specific data.
	Cyanine-3-dUTP	No specific data.
	Cyanine-5-dUTP	No specific data.
	Human Reference DNA Male	No specific data.
	Human Reference DNA Female	No specific data.
	2X HI-RPM Hybridization Buffer	No specific data.
	10X aCGH Blocking Agent	No specific data.
	Cot-1 DNA	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.

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In Situ DNA Microarray, 2x400K	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.
	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.
	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.
	10X dNTP Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Exo(-) Klenow	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.
	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.
	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.
	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.
	Cot-1 DNA	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.

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	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	In Situ DNA Microarray, 2x400K	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments :	Nuclease-Free Water	No specific treatment.
	Random Primers	No specific treatment.
	5X gDNA Reaction Buffer	No specific treatment.
	Alu I	No specific treatment.
	Rsa I	No specific treatment.
	10X Restriction Enzyme Buffer	No specific treatment.
	BSA	No specific treatment.
	10X dNTP Mix	No specific treatment.
	Exo(-) Klenow	No specific treatment.
	Cyanine-3-dUTP	No specific treatment.
	Cyanine-5-dUTP	No specific treatment.
	Human Reference DNA Male	No specific treatment.
	Human Reference DNA Female	No specific treatment.
	2X HI-RPM Hybridization Buffer	No specific treatment.
	10X aCGH Blocking Agent	No specific treatment.
	Cot-1 DNA	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.
	In Situ DNA Microarray, 2x400K	No specific treatment.
Protection of first-aiders :	Nuclease-Free Water	No action shall be taken involving any personal risk or without suitable training.
	Random Primers	No action shall be taken involving any personal risk or without suitable training.
	5X gDNA Reaction Buffer	No action shall be taken involving any personal risk or without suitable training. 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.
	Alu I	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Rsa I	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	10X Restriction Enzyme Buffer	No action shall be taken involving any personal risk or without suitable training.
	BSA	No action shall be taken involving any personal risk or without suitable training.
	10X dNTP Mix	No action shall be taken involving any personal risk or without suitable training.
	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.
	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.

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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.
2X HI-RPM Hybridization 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.
10X aCGH Blocking Agent	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Cot-1 DNA	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.
In Situ DNA Microarray, 2x400K	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.

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.
Random Primers	Use an extinguishing agent suitable for the surrounding fire.
5X gDNA Reaction Buffer	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.
10X dNTP Mix	Use an extinguishing agent suitable for the surrounding fire.
Exo(-) Klenow	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.
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.
2X HI-RPM Hybridization Buffer	Use an extinguishing agent suitable for the

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		surrounding fire.
	10X aCGH Blocking Agent	Use an extinguishing agent suitable for the surrounding fire.
	Cot-1 DNA	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.
	In Situ DNA Microarray, 2x400K	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media :	Nuclease-Free Water	None known.
	Random Primers	None known.
	5X gDNA Reaction Buffer	None known.
	Alu I	None known.
	Rsa I	None known.
	10X Restriction Enzyme Buffer	None known.
	BSA	None known.
	10X dNTP Mix	None known.
	Exo(-) Klenow	None known.
	Cyanine-3-dUTP	None known.
	Cyanine-5-dUTP	None known.
	Human Reference DNA Male	None known.
	Human Reference DNA Female	None known.
	2X HI-RPM Hybridization Buffer	None known.
	10X aCGH Blocking Agent	None known.
	Cot-1 DNA	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	None known.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	None known.
	In Situ DNA Microarray, 2x400K	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.
	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.
	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.
	10X dNTP Mix	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.
	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.
	Human Reference DNA Male	In a fire or if heated, a pressure increase will occur and the container may burst.

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	Human Reference DNA Female	In a fire or if heated, a pressure increase will occur and the container may burst.
	2X HI-RPM Hybridization Buffer	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.
	Cot-1 DNA	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.
	In Situ DNA Microarray, 2x400K	No specific fire or explosion hazard.
Hazardous thermal decomposition products :	Nuclease-Free Water	No specific data.
	Random Primers	No specific data.
	5X gDNA Reaction Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
	Alu I	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
	Rsa I	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
	10X Restriction Enzyme Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	BSA	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	10X dNTP Mix	No specific data.
	Exo(-) Klenow	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Cyanine-3-dUTP	No specific data.
	Cyanine-5-dUTP	No specific data.
	Human Reference DNA Male	No specific data.
	Human Reference DNA Female	No specific data.
	2X HI-RPM Hybridization Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds

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	metal oxide/oxides
10X aCGH Blocking Agent	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides halogenated compounds
Cot-1 DNA	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.
In Situ DNA Microarray, 2x400K	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.
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.
Alu I	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Rsa I	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
10X Restriction Enzyme Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
BSA	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
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.
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.
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.

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	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.
	Human Reference DNA Male	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Human Reference DNA Female	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	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.
	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.
	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.
	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.
	In Situ DNA Microarray, 2x400K	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.
	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.
	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

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	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.
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.
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.
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.
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.
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.
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.
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.
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.
In Situ DNA Microarray, 2x400K	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	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.
Random Primers	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
5X gDNA Reaction Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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.
10X dNTP Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

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

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		unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
	In Situ DNA Microarray, 2x400K	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.
For emergency responders :	Nuclease-Free Water	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Random Primers	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	5X gDNA Reaction Buffer	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Alu I	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Rsa I	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	10X Restriction Enzyme Buffer	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	BSA	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	10X dNTP Mix	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Exo(-) Klenow	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Cyanine-3-dUTP	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Cyanine-5-dUTP	If specialized clothing is required to deal with the spillage, take note of any information in Section 8

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		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".
	2X HI-RPM Hybridization Buffer	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	10X aCGH Blocking Agent	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Cot-1 DNA	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	In Situ DNA Microarray, 2x400K	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).
	Random Primers	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	5X gDNA Reaction Buffer	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	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,

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	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).
10X dNTP Mix	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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).
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).
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).
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).
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).
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).
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

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	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).
In Situ DNA Microarray, 2x400K	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up :	Nuclease-Free Water	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	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.
	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.
	10X dNTP Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

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	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.
Cyanine-3-dUTP	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Cyanine-5-dUTP	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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.
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.
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.
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.
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.

Section 6. Accidental release measures

		Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	In Situ DNA Microarray, 2x400K	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.

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).
	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.
	Alu I	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Rsa I	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	10X Restriction Enzyme Buffer	Put on appropriate personal protective equipment (see Section 8).
	BSA	Put on appropriate personal protective equipment (see Section 8).
	10X dNTP Mix	Put on appropriate personal protective equipment (see Section 8).
	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.
	Cyanine-3-dUTP	Put on appropriate personal protective equipment (see Section 8).

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	Cyanine-5-dUTP	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).
	2X HI-RPM Hybridization Buffer	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. 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.
	10X aCGH Blocking Agent	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Cot-1 DNA	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).
	In Situ DNA Microarray, 2x400K	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene :	Nuclease-Free Water	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Random Primers	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	5X gDNA Reaction Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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Alu I	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Rsa I	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
10X Restriction Enzyme Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
BSA	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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.
Exo(-) Klenow	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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.
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

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	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.
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.
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.
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.
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.
In Situ DNA Microarray, 2x400K	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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7.2 Conditions for safe storage, including any incompatibilities	:	Nuclease-Free Water	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
		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. See Section 10 for incompatible materials before handling or use.
		5X gDNA Reaction Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
		Alu I	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
		Rsa I	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
		10X Restriction Enzyme Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food

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	and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
BSA	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
10X dNTP Mix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
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. See Section 10 for incompatible materials before handling or use.
Cyanine-3-dUTP	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Cyanine-5-dUTP	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled

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

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Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
In Situ DNA Microarray, 2x400K	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations :

Nuclease-Free Water	Industrial applications, Professional applications.
Random Primers	Industrial applications, Professional applications.
5X gDNA Reaction Buffer	Industrial applications, Professional applications.
Alu I	Industrial applications, Professional applications.
Rsa I	Industrial applications, Professional applications.
10X Restriction Enzyme Buffer	Industrial applications, Professional applications.
BSA	Industrial applications, Professional applications.
10X dNTP Mix	Industrial applications, Professional applications.
Exo(-) Klenow	Industrial applications, Professional applications.
Cyanine-3-dUTP	Industrial applications, Professional applications.
Cyanine-5-dUTP	Industrial applications, Professional applications.
Human Reference DNA Male	Industrial applications, Professional applications.
Human Reference DNA Female	Industrial applications, Professional applications.
2X HI-RPM Hybridization Buffer	Industrial applications, Professional applications.
10X aCGH Blocking Agent	Industrial applications, Professional applications.
Cot-1 DNA	Industrial applications, Professional applications.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Industrial applications, Professional applications.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Industrial applications, Professional applications.
In Situ DNA Microarray, 2x400K	Industrial applications, Professional applications.

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Industrial sector specific solutions :	Nuclease-Free Water	Not applicable.
	Random Primers	Not applicable.
	5X gDNA Reaction Buffer	Not applicable.
	Alu I	Not applicable.
	Rsa I	Not applicable.
	10X Restriction Enzyme Buffer	Not applicable.
	BSA	Not applicable.
	10X dNTP Mix	Not applicable.
	Exo(-) Klenow	Not applicable.
	Cyanine-3-dUTP	Not applicable.
	Cyanine-5-dUTP	Not applicable.
	Human Reference DNA Male	Not applicable.
	Human Reference DNA Female	Not applicable.
	2X HI-RPM Hybridization Buffer	Not applicable.
	10X aCGH Blocking Agent	Not applicable.
	Cot-1 DNA	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not applicable.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not applicable.
	In Situ DNA Microarray, 2x400K	Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Nuclease-Free Water	
Water	None.
5X gDNA Reaction Buffer	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	None.
2-Mercaptoethanol	**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/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust **OSHA PEL (United States, 6/2016).** TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust
Trisodium citrate	None.
Rsa I	
Glycerol	**OSHA PEL 1989 (United States, 3/1989).** TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust **OSHA PEL (United States, 6/2016).** TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust
Sodium chloride	None.

Section 8. Exposure controls/personal protection

10X Restriction Enzyme Buffer	
Sodium chloride	None.
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	None.
Exo(-) Klenow	
Glycerol	**OSHA PEL 1989 (United States, 3/1989).** TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust **OSHA PEL (United States, 6/2016).** TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust
2X HI-RPM Hybridization Buffer	
4-Morpholineethanesulfonic acid, hydrate (1:1)	None.
Lithium chloride	None.
Lithium dodecyl sulphate	None.
Polyoxyethylene octyl phenyl ether	None.
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether	None.
10X aCGH Blocking Agent	
Trometamol	None.
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	None.
In Situ DNA Microarray, 2x400K	
Sodium silicate	None.

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Section 8. Exposure controls/personal protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state :

Nuclease-Free Water	Liquid.
Random Primers	Liquid.
5X gDNA Reaction Buffer	Liquid.
Alu I	Liquid.
Rsa I	Liquid.
10X Restriction Enzyme Buffer	Liquid.
BSA	Liquid.
10X dNTP Mix	Liquid.
Exo(-) Klenow	Liquid.
Cyanine-3-dUTP	Liquid.
Cyanine-5-dUTP	Liquid.
Human Reference DNA Male	Liquid.
Human Reference DNA Female	Liquid.
2X HI-RPM Hybridization Buffer	Liquid.
10X aCGH Blocking Agent	Solid. [lyophilized pellets]
Cot-1 DNA	Liquid.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Liquid.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Liquid.
In Situ DNA Microarray, 2x400K	Solid.

Color :

Nuclease-Free Water	Colorless.
Random Primers	Not available.
5X gDNA Reaction Buffer	Not available.
Alu I	Not available.
Rsa I	Not available.
10X Restriction Enzyme Buffer	Not available.
BSA	Not available.
10X dNTP Mix	Not available.
Exo(-) Klenow	Not available.
Cyanine-3-dUTP	Not available.
Cyanine-5-dUTP	Not available.
Human Reference DNA Male	Not available.
Human Reference DNA Female	Not available.
2X HI-RPM Hybridization Buffer	Not available.

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		10X aCGH Blocking Agent	Not available.
		Cot-1 DNA	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
		In Situ DNA Microarray, 2x400K	Not available.
Odor	:	Nuclease-Free Water	Odorless.
		Random Primers	Not available.
		5X gDNA Reaction Buffer	Not available.
		Alu I	Not available.
		Rsa I	Not available.
		10X Restriction Enzyme Buffer	Not available.
		BSA	Not available.
		10X dNTP Mix	Not available.
		Exo(-) Klenow	Not available.
		Cyanine-3-dUTP	Not available.
		Cyanine-5-dUTP	Not available.
		Human Reference DNA Male	Not available.
		Human Reference DNA Female	Not available.
		2X HI-RPM Hybridization Buffer	Not available.
		10X aCGH Blocking Agent	Not available.
		Cot-1 DNA	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
		In Situ DNA Microarray, 2x400K	Not available.
Odor threshold	:	Nuclease-Free Water	Not available.
		Random Primers	Not available.
		5X gDNA Reaction Buffer	Not available.
		Alu I	Not available.
		Rsa I	Not available.
		10X Restriction Enzyme Buffer	Not available.
		BSA	Not available.
		10X dNTP Mix	Not available.
		Exo(-) Klenow	Not available.
		Cyanine-3-dUTP	Not available.
		Cyanine-5-dUTP	Not available.
		Human Reference DNA Male	Not available.
		Human Reference DNA Female	Not available.
		2X HI-RPM Hybridization Buffer	Not available.
		10X aCGH Blocking Agent	Not available.
		Cot-1 DNA	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
		In Situ DNA Microarray, 2x400K	Not available.
pH	:	Nuclease-Free Water	7
		Random Primers	8
		5X gDNA Reaction Buffer	7.5
		Alu I	7.4
		Rsa I	7.4
		10X Restriction Enzyme Buffer	7.9
		BSA	Not available.
		10X dNTP Mix	8
		Exo(-) Klenow	7.5

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		Cyanine-3-dUTP	Not available.
		Cyanine-5-dUTP	Not available.
		Human Reference DNA Male	8
		Human Reference DNA Female	8
		2X HI-RPM Hybridization Buffer	6.1
		10X aCGH Blocking Agent	Not available.
		Cot-1 DNA	7.4
		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
		In Situ DNA Microarray, 2x400K	Not available.
Melting point	:	Nuclease-Free Water	0°C (32°F)
		Random Primers	0°C (32°F)
		5X gDNA Reaction Buffer	0°C (32°F)
		Alu I	Not available.
		Rsa I	Not available.
		10X Restriction Enzyme Buffer	Not available.
		BSA	0°C (32°F)
		10X dNTP Mix	0°C (32°F)
		Exo(-) Klenow	Not available.
		Cyanine-3-dUTP	0°C (32°F)
		Cyanine-5-dUTP	0°C (32°F)
		Human Reference DNA Male	0°C (32°F)
		Human Reference DNA Female	0°C (32°F)
		2X HI-RPM Hybridization Buffer	Not available.
		10X aCGH Blocking Agent	Not available.
		Cot-1 DNA	0°C (32°F)
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	0°C (32°F)
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	0°C (32°F)
		In Situ DNA Microarray, 2x400K	Not available.
Boiling point	:	Nuclease-Free Water	100°C (212°F)
		Random Primers	100°C (212°F)
		5X gDNA Reaction Buffer	100°C (212°F)
		Alu I	Not available.
		Rsa I	Not available.
		10X Restriction Enzyme Buffer	Not available.
		BSA	100°C (212°F)
		10X dNTP Mix	100°C (212°F)
		Exo(-) Klenow	Not available.
		Cyanine-3-dUTP	100°C (212°F)
		Cyanine-5-dUTP	100°C (212°F)
		Human Reference DNA Male	100°C (212°F)
		Human Reference DNA Female	100°C (212°F)
		2X HI-RPM Hybridization Buffer	Not available.
		10X aCGH Blocking Agent	Not available.
		Cot-1 DNA	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)
		In Situ DNA Microarray, 2x400K	Not available.

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Flash point	:	Nuclease-Free Water	Not applicable.
		Random Primers	Not available.
		5X gDNA Reaction Buffer	Not available.
		Alu I	Not available.
		Rsa I	Not available.
		10X Restriction Enzyme Buffer	Not available.
		BSA	Not available.
		10X dNTP Mix	Not available.
		Exo(-) Klenow	Not available.
		Cyanine-3-dUTP	Not available.
		Cyanine-5-dUTP	Not available.
		Human Reference DNA Male	Not available.
		Human Reference DNA Female	Not available.
		2X HI-RPM Hybridization Buffer	Not available.
		10X aCGH Blocking Agent	Not available.
		Cot-1 DNA	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
		In Situ DNA Microarray, 2x400K	Not available.
Evaporation rate	:	Nuclease-Free Water	Not available.
		Random Primers	Not available.
		5X gDNA Reaction Buffer	Not available.
		Alu I	Not available.
		Rsa I	Not available.
		10X Restriction Enzyme Buffer	Not available.
		BSA	Not available.
		10X dNTP Mix	Not available.
		Exo(-) Klenow	Not available.
		Cyanine-3-dUTP	Not available.
		Cyanine-5-dUTP	Not available.
		Human Reference DNA Male	Not available.
		Human Reference DNA Female	Not available.
		2X HI-RPM Hybridization Buffer	Not available.
		10X aCGH Blocking Agent	Not available.
		Cot-1 DNA	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
		In Situ DNA Microarray, 2x400K	Not available.
Flammability (solid, gas)	:	Nuclease-Free Water	Not applicable.
		Random Primers	Not applicable.
		5X gDNA Reaction Buffer	Not applicable.
		Alu I	Not applicable.
		Rsa I	Not applicable.
		10X Restriction Enzyme Buffer	Not applicable.
		BSA	Not applicable.
		10X dNTP Mix	Not applicable.
		Exo(-) Klenow	Not applicable.
		Cyanine-3-dUTP	Not applicable.
		Cyanine-5-dUTP	Not applicable.
		Human Reference DNA Male	Not applicable.
		Human Reference DNA Female	Not applicable.
		2X HI-RPM Hybridization Buffer	Not applicable.
		10X aCGH Blocking Agent	Not available.
		Cot-1 DNA	Not applicable.

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		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not applicable.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not applicable.
		In Situ DNA Microarray, 2x400K	Not available.
Lower and upper explosive (flammable) limits	:	Nuclease-Free Water	Not available.
		Random Primers	Not available.
		5X gDNA Reaction Buffer	Not available.
		Alu I	Not available.
		Rsa I	Not available.
		10X Restriction Enzyme Buffer	Not available.
		BSA	Not available.
		10X dNTP Mix	Not available.
		Exo(-) Klenow	Not available.
		Cyanine-3-dUTP	Not available.
		Cyanine-5-dUTP	Not available.
		Human Reference DNA Male	Not available.
		Human Reference DNA Female	Not available.
		2X HI-RPM Hybridization Buffer	Not available.
		10X aCGH Blocking Agent	Not available.
		Cot-1 DNA	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
		In Situ DNA Microarray, 2x400K	Not available.
Vapor pressure	:	Nuclease-Free Water	3.2 kPa (23.8 mm Hg) [room temperature]
		Random Primers	Not available.
		5X gDNA Reaction Buffer	Not available.
		Alu I	Not available.
		Rsa I	Not available.
		10X Restriction Enzyme Buffer	Not available.
		BSA	Not available.
		10X dNTP Mix	Not available.
		Exo(-) Klenow	Not available.
		Cyanine-3-dUTP	Not available.
		Cyanine-5-dUTP	Not available.
		Human Reference DNA Male	Not available.
		Human Reference DNA Female	Not available.
		2X HI-RPM Hybridization Buffer	Not available.
		10X aCGH Blocking Agent	Not available.
		Cot-1 DNA	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
		In Situ DNA Microarray, 2x400K	Not available.
Vapor density	:	Nuclease-Free Water	0.62 [Air = 1]
		Random Primers	Not available.
		5X gDNA Reaction Buffer	Not available.
		Alu I	Not available.
		Rsa I	Not available.
		10X Restriction Enzyme Buffer	Not available.
		BSA	Not available.
		10X dNTP Mix	Not available.
		Exo(-) Klenow	Not available.
		Cyanine-3-dUTP	Not available.
		Cyanine-5-dUTP	Not available.

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		Human Reference DNA Male	Not available.
		Human Reference DNA Female	Not available.
		2X HI-RPM Hybridization Buffer	Not available.
		10X aCGH Blocking Agent	Not available.
		Cot-1 DNA	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
		In Situ DNA Microarray, 2x400K	Not available.
Relative density	:	Nuclease-Free Water	1
		Random Primers	Not available.
		5X gDNA Reaction Buffer	Not available.
		Alu I	Not available.
		Rsa I	Not available.
		10X Restriction Enzyme Buffer	Not available.
		BSA	Not available.
		10X dNTP Mix	Not available.
		Exo(-) Klenow	Not available.
		Cyanine-3-dUTP	Not available.
		Cyanine-5-dUTP	Not available.
		Human Reference DNA Male	Not available.
		Human Reference DNA Female	Not available.
		2X HI-RPM Hybridization Buffer	Not available.
		10X aCGH Blocking Agent	Not available.
		Cot-1 DNA	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
		In Situ DNA Microarray, 2x400K	Not available.
Solubility	:	Nuclease-Free Water	Easily 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.
		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.
		10X dNTP Mix	Easily soluble in the following materials: cold water and hot water.
		Exo(-) Klenow	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.
		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.
		2X HI-RPM Hybridization Buffer	Soluble in the following materials: cold water and

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		hot water.
	10X aCGH Blocking Agent	Soluble in the following materials: cold water and hot water.
	Cot-1 DNA	Easily soluble in the following materials: cold water and hot water.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Easily soluble in the following materials: cold water and hot water.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Easily soluble in the following materials: cold water and hot water.
	In Situ DNA Microarray, 2x400K	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water :	Nuclease-Free Water	-1.38
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	10X dNTP Mix	Not available.
	Exo(-) Klenow	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	Human Reference DNA Male	Not available.
	Human Reference DNA Female	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	10X aCGH Blocking Agent	Not available.
	Cot-1 DNA	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	In Situ DNA Microarray, 2x400K	Not available.
Auto-ignition temperature :	Nuclease-Free Water	Not applicable.
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	10X dNTP Mix	Not available.
	Exo(-) Klenow	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	Human Reference DNA Male	Not available.
	Human Reference DNA Female	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	10X aCGH Blocking Agent	Not available.
	Cot-1 DNA	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	In Situ DNA Microarray, 2x400K	Not available.

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Decomposition temperature :	Nuclease-Free Water	Not available.
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	10X dNTP Mix	Not available.
	Exo(-) Klenow	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	Human Reference DNA Male	Not available.
	Human Reference DNA Female	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	10X aCGH Blocking Agent	Not available.
	Cot-1 DNA	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	In Situ DNA Microarray, 2x400K	Not available.
Viscosity :	Nuclease-Free Water	Not available.
	Random Primers	Not available.
	5X gDNA Reaction Buffer	Not available.
	Alu I	Not available.
	Rsa I	Not available.
	10X Restriction Enzyme Buffer	Not available.
	BSA	Not available.
	10X dNTP Mix	Not available.
	Exo(-) Klenow	Not available.
	Cyanine-3-dUTP	Not available.
	Cyanine-5-dUTP	Not available.
	Human Reference DNA Male	Not available.
	Human Reference DNA Female	Not available.
	2X HI-RPM Hybridization Buffer	Not available.
	10X aCGH Blocking Agent	Not available.
	Cot-1 DNA	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
	In Situ DNA Microarray, 2x400K	Not available.

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10.1 Reactivity :	Nuclease-Free Water	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.
	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.

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	10X dNTP Mix	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.
	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.
	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.
	2X HI-RPM Hybridization Buffer	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.
	Cot-1 DNA	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.
	In Situ DNA Microarray, 2x400K	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.
	Random Primers	The product is stable.
	5X gDNA Reaction Buffer	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.
	10X dNTP Mix	The product is stable.
	Exo(-) Klenow	The product is stable.
	Cyanine-3-dUTP	The product is stable.
	Cyanine-5-dUTP	The product is stable.
	Human Reference DNA Male	The product is stable.
	Human Reference DNA Female	The product is stable.
	2X HI-RPM Hybridization Buffer	The product is stable.
	10X aCGH Blocking Agent	The product is stable.
	Cot-1 DNA	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.
	In Situ DNA Microarray, 2x400K	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.
	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.
	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,

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		hazardous reactions will not occur.
	BSA	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.
	Exo(-) Klenow	Under normal conditions of storage and use, hazardous reactions will not occur.
	Cyanine-3-dUTP	Under normal conditions of storage and use, hazardous reactions will not occur.
	Cyanine-5-dUTP	Under normal conditions of storage and use, hazardous reactions will not occur.
	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.
	2X HI-RPM Hybridization Buffer	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.
	Cot-1 DNA	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.
	In Situ DNA Microarray, 2x400K	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid :	Nuclease-Free Water	No specific data.
	Random Primers	No specific data.
	5X gDNA Reaction Buffer	No specific data.
	Alu I	No specific data.
	Rsa I	No specific data.
	10X Restriction Enzyme Buffer	No specific data.
	BSA	No specific data.
	10X dNTP Mix	No specific data.
	Exo(-) Klenow	No specific data.
	Cyanine-3-dUTP	No specific data.
	Cyanine-5-dUTP	No specific data.
	Human Reference DNA Male	No specific data.
	Human Reference DNA Female	No specific data.
	2X HI-RPM Hybridization Buffer	No specific data.
	10X aCGH Blocking Agent	No specific data.
	Cot-1 DNA	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.
	In Situ DNA Microarray, 2x400K	No specific data.
10.5 Incompatible materials :	Nuclease-Free Water	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.
	Alu I	May react or be incompatible with oxidizing materials.

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	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.
	10X dNTP Mix	May react or be incompatible with oxidizing materials.
	Exo(-) Klenow	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.
	Human Reference DNA Male	May react or be incompatible with oxidizing materials.
	Human Reference DNA Female	May react or be incompatible with oxidizing materials.
	2X HI-RPM Hybridization Buffer	May react or be incompatible with oxidizing materials.
	10X aCGH Blocking Agent	May react or be incompatible with oxidizing materials.
	Cot-1 DNA	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.
	In Situ DNA Microarray, 2x400K	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.
	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.
	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.
	10X dNTP Mix	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.
	Cyanine-3-dUTP	Under normal conditions of storage and use,

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	hazardous decomposition products should not be produced.
Cyanine-5-dUTP	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.
2X HI-RPM Hybridization Buffer	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.
Cot-1 DNA	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.
In Situ DNA Microarray, 2x400K	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
5X gDNA Reaction Buffer				
2-Mercaptoethanol	LD50 Dermal	Rabbit	200 mg/kg	-
	LD50 Oral	Rat	244 mg/kg	-
Alu I				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Rsa I				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
10X Restriction Enzyme Buffer				
Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
Exo(-) Klenow				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
2X HI-RPM Hybridization Buffer				
Lithium chloride	LD50 Dermal	Rabbit	1629 mg/kg	-
	LD50 Dermal	Rat	1488 mg/kg	-
	LD50 Oral	Rat	526 mg/kg	-

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Lithium dodecyl sulphate	LD50 Oral	Rat	>5000 mg/kg	-
Polyoxyethylene octyl phenyl ether	LD50 Oral	Rat	1800 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
	LD50 Dermal	Rabbit	1550 mg/kg	-
	LD50 Oral	Rat	3200 mg/kg	-
10X aCGH Blocking Agent				
Trometamol	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
5X gDNA Reaction Buffer					
2-Mercaptoethanol	Eyes - Severe irritant	Rabbit	-	2 milligrams	-
Alu I					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Rsa I					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
10X Restriction Enzyme Buffer					
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Exo(-) Klenow					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
2X HI-RPM Hybridization Buffer					
Lithium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-
Polyoxyethylene octyl phenyl	Eyes - Moderate irritant	Rabbit	-	24 hours 10	-

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ether	Skin - Mild irritant	Rabbit	-	microliters 24 hours 500 microliters	-
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3, 3-tetramethyl-1-[(trimethylsilyl)oxy] -1-disiloxanyl]propyl] ether	Skin - Mild irritant	Rabbit	-	-	-
	Eyes - Severe irritant	Rabbit	-	-	-
10X aCGH Blocking Agent					
Trometamol	Skin - Moderate irritant Skin - Severe irritant	Rabbit Rabbit	- -	25 Percent 500 milligrams	- -

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-[(trimethylsilyl)oxy] -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
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
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

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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
In Situ DNA Microarray, 2x400K			
Sodium silicate	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

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.
Random Primers	Not available.
5X gDNA Reaction Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
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.
10X dNTP Mix	Not available.
Exo(-) Klenow	Routes of entry anticipated: Oral, Dermal, Inhalation.
Cyanine-3-dUTP	Not available.
Cyanine-5-dUTP	Not available.
Human Reference DNA Male	Not available.
Human Reference DNA Female	Not available.
2X HI-RPM Hybridization Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation.
10X aCGH Blocking Agent	Routes of entry anticipated: Oral, Dermal, Inhalation.
Cot-1 DNA	Not available.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Not available.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Not available.
In Situ DNA Microarray, 2x400K	Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

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Eye contact	:	Nuclease-Free Water	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.
		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.
		10X dNTP Mix	No known significant effects or critical hazards.
		Exo(-) Klenow	Causes eye irritation.
		Cyanine-3-dUTP	No known significant effects or critical hazards.
		Cyanine-5-dUTP	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.
		2X HI-RPM Hybridization Buffer	Causes serious eye irritation.
		10X aCGH Blocking Agent	Causes serious eye irritation.
		Cot-1 DNA	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.
		In Situ DNA Microarray, 2x400K	Causes serious eye irritation.
Inhalation	:	Nuclease-Free Water	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.
		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.
		10X dNTP Mix	No known significant effects or critical hazards.
		Exo(-) Klenow	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.
		Human Reference DNA Male	No known significant effects or critical hazards.
		Human Reference DNA Female	No known significant effects or critical hazards.
		2X HI-RPM Hybridization Buffer	No known significant effects or critical hazards.
		10X aCGH Blocking Agent	May cause respiratory irritation.
		Cot-1 DNA	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.
		In Situ DNA Microarray, 2x400K	May cause respiratory irritation.
Skin contact	:	Nuclease-Free Water	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.
		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.
		10X dNTP Mix	No known significant effects or critical hazards.
		Exo(-) Klenow	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.
		Human Reference DNA Male	No known significant effects or critical hazards.
		Human Reference DNA Female	No known significant effects or critical hazards.
		2X HI-RPM Hybridization Buffer	Causes skin irritation.
		10X aCGH Blocking Agent	Causes skin irritation.
		Cot-1 DNA	No known significant effects or critical hazards.
		Agilent Oligo aCGH/ChIP-on-Chip	No known significant effects or critical hazards.

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	Wash Buffer 1	
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No known significant effects or critical hazards.
	In Situ DNA Microarray, 2x400K	Causes skin irritation.
Ingestion :	Nuclease-Free Water	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.
	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.
	10X dNTP Mix	No known significant effects or critical hazards.
	Exo(-) Klenow	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.
	Human Reference DNA Male	No known significant effects or critical hazards.
	Human Reference DNA Female	No known significant effects or critical hazards.
	2X HI-RPM Hybridization Buffer	No known significant effects or critical hazards.
	10X aCGH Blocking Agent	No known significant effects or critical hazards.
	Cot-1 DNA	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.
	In Situ DNA Microarray, 2x400K	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact :	Nuclease-Free Water	No specific data.
	Random Primers	No specific data.
	5X gDNA Reaction Buffer	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.
	10X dNTP Mix	No specific data.
	Exo(-) Klenow	Adverse symptoms may include the following: irritation watering redness
	Cyanine-3-dUTP	No specific data.
	Cyanine-5-dUTP	No specific data.
	Human Reference DNA Male	No specific data.
	Human Reference DNA Female	No specific data.
	2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: pain or irritation watering redness
	10X aCGH Blocking Agent	Adverse symptoms may include the following: pain or irritation watering redness
	Cot-1 DNA	No specific data.

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	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No specific data.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data.
	In Situ DNA Microarray, 2x400K	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation :	Nuclease-Free Water	No specific data.
	Random Primers	No specific data.
	5X gDNA Reaction Buffer	No specific data.
	Alu I	No specific data.
	Rsa I	No specific data.
	10X Restriction Enzyme Buffer	No specific data.
	BSA	No specific data.
	10X dNTP Mix	No specific data.
	Exo(-) Klenow	No specific data.
	Cyanine-3-dUTP	No specific data.
	Cyanine-5-dUTP	No specific data.
	Human Reference DNA Male	No specific data.
	Human Reference DNA Female	No specific data.
	2X HI-RPM Hybridization Buffer	No specific data.
	10X aCGH Blocking Agent	Adverse symptoms may include the following: respiratory tract irritation coughing
	Cot-1 DNA	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.
	In Situ DNA Microarray, 2x400K	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact :	Nuclease-Free Water	No specific data.
	Random Primers	No specific data.
	5X gDNA Reaction Buffer	Adverse symptoms may include the following: irritation redness
	Alu I	No specific data.
	Rsa I	No specific data.
	10X Restriction Enzyme Buffer	No specific data.
	BSA	No specific data.
	10X dNTP Mix	No specific data.
	Exo(-) Klenow	No specific data.
	Cyanine-3-dUTP	No specific data.
	Cyanine-5-dUTP	No specific data.
	Human Reference DNA Male	No specific data.
	Human Reference DNA Female	No specific data.
	2X HI-RPM Hybridization Buffer	Adverse symptoms may include the following: irritation redness
	10X aCGH Blocking Agent	Adverse symptoms may include the following: irritation redness
	Cot-1 DNA	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.

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	In Situ DNA Microarray, 2x400K	Adverse symptoms may include the following: irritation redness
Ingestion :	Nuclease-Free Water	No specific data.
	Random Primers	No specific data.
	5X gDNA Reaction Buffer	No specific data.
	Alu I	No specific data.
	Rsa I	No specific data.
	10X Restriction Enzyme Buffer	No specific data.
	BSA	No specific data.
	10X dNTP Mix	No specific data.
	Exo(-) Klenow	No specific data.
	Cyanine-3-dUTP	No specific data.
	Cyanine-5-dUTP	No specific data.
	Human Reference DNA Male	No specific data.
	Human Reference DNA Female	No specific data.
	2X HI-RPM Hybridization Buffer	No specific data.
	10X aCGH Blocking Agent	No specific data.
	Cot-1 DNA	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.
	In Situ DNA Microarray, 2x400K	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.
	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.
	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.
	10X dNTP Mix	No known significant effects or critical hazards.
	Exo(-) Klenow	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.
	Human Reference DNA Male	No known significant effects or critical hazards.
	Human Reference DNA Female	No known significant effects or critical hazards.
	2X HI-RPM Hybridization Buffer	May cause damage to organs through prolonged or repeated exposure.
	10X aCGH Blocking Agent	No known significant effects or critical hazards.
	Cot-1 DNA	No known significant effects or critical hazards.
	Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No known significant effects or critical hazards.

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		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No known significant effects or critical hazards.
		In Situ DNA Microarray, 2x400K	No known significant effects or critical hazards.
Carcinogenicity	:	Nuclease-Free Water	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.
		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.
		10X dNTP Mix	No known significant effects or critical hazards.
		Exo(-) Klenow	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.
		Human Reference DNA Male	No known significant effects or critical hazards.
		Human Reference DNA Female	No known significant effects or critical hazards.
		2X HI-RPM Hybridization Buffer	No known significant effects or critical hazards.
		10X aCGH Blocking Agent	No known significant effects or critical hazards.
		Cot-1 DNA	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.
		In Situ DNA Microarray, 2x400K	No known significant effects or critical hazards.
Mutagenicity	:	Nuclease-Free Water	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.
		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.
		10X dNTP Mix	No known significant effects or critical hazards.
		Exo(-) Klenow	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.
		Human Reference DNA Male	No known significant effects or critical hazards.
		Human Reference DNA Female	No known significant effects or critical hazards.
		2X HI-RPM Hybridization Buffer	No known significant effects or critical hazards.
		10X aCGH Blocking Agent	No known significant effects or critical hazards.
		Cot-1 DNA	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.
		In Situ DNA Microarray, 2x400K	No known significant effects or critical hazards.
Teratogenicity	:	Nuclease-Free Water	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.
		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.
		10X dNTP Mix	No known significant effects or critical hazards.
		Exo(-) Klenow	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.
		Human Reference DNA Male	No known significant effects or critical hazards.
		Human Reference DNA Female	No known significant effects or critical hazards.
		2X HI-RPM Hybridization Buffer	No known significant effects or critical hazards.

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		10X aCGH Blocking Agent	No known significant effects or critical hazards.
		Cot-1 DNA	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.
		In Situ DNA Microarray, 2x400K	No known significant effects or critical hazards.
Developmental effects	:	Nuclease-Free Water	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.
		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.
		10X dNTP Mix	No known significant effects or critical hazards.
		Exo(-) Klenow	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.
		Human Reference DNA Male	No known significant effects or critical hazards.
		Human Reference DNA Female	No known significant effects or critical hazards.
		2X HI-RPM Hybridization Buffer	No known significant effects or critical hazards.
		10X aCGH Blocking Agent	No known significant effects or critical hazards.
		Cot-1 DNA	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.
		In Situ DNA Microarray, 2x400K	No known significant effects or critical hazards.
Fertility effects	:	Nuclease-Free Water	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.
		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.
		10X dNTP Mix	No known significant effects or critical hazards.
		Exo(-) Klenow	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.
		Human Reference DNA Male	No known significant effects or critical hazards.
		Human Reference DNA Female	No known significant effects or critical hazards.
		2X HI-RPM Hybridization Buffer	No known significant effects or critical hazards.
		10X aCGH Blocking Agent	No known significant effects or critical hazards.
		Cot-1 DNA	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.
		In Situ DNA Microarray, 2x400K	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

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Route	ATE value
Rsa I	
Oral	172414.5 mg/kg
10X Restriction Enzyme Buffer	
Oral	103448.3 mg/kg
2X HI-RPM Hybridization Buffer	
Oral	5725.5 mg/kg
Dermal	19854.9 mg/kg
Inhalation (dusts and mists)	25.5 mg/l
10X aCGH Blocking Agent	
Oral	25030 mg/kg

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12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Alu I			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
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 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402600 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 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 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402600 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 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
Exo(-) Klenow			

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Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
2X HI-RPM Hybridization Buffer			
Lithium chloride	Acute LC50 17000 µg/l Fresh water	Fish - Ptychocheilus lucius - Swim-up	96 hours
Polyoxyethylene octyl phenyl ether	Acute LC50 5.85 mg/l Fresh water	Crustaceans - Ceriodaphnia rigaudi - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]-1-disiloxanyl]propyl] ether	EC50 28.2 mg/l	Algae	72 hours
	EC50 1.1 mg/l	Daphnia	48 hours
10X aCGH Blocking Agent			
Trometamol	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Nuclease-Free Water				
Water	-	100 % - 28 days	-	-
Alu I				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Rsa I				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Exo(-) Klenow				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

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

12.3 Bioaccumulative potential

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Product/ingredient name	$LogP_{ow}$	BCF	Potential
Nuclease-Free Water			
Water	-1.38	-	low
5X gDNA Reaction Buffer			
2-Mercaptoethanol	-0.056	-	low
Alu I			
Glycerol	-1.76	-	low
Rsa I			
Glycerol	-1.76	-	low
Exo(-) Klenow			
Glycerol	-1.76	-	low
2X HI-RPM Hybridization Buffer			
Polyoxyethylene octyl phenyl ether	4.86	-	high
10X aCGH Blocking Agent			
Trometamol	-1.56	-	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

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

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

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

Section 15. Regulatory information

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

U.S. Federal regulations : **TSCA 8(a) PAIR**: Polyoxyethylene octyl phenyl ether

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 311: Edetic acid; Sodium hydroxide

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification :

Nuclease-Free Water	Not applicable.
Random Primers	Not applicable.
5X gDNA Reaction Buffer	Immediate (acute) health hazard
Alu I	Immediate (acute) health hazard
Rsa I	Immediate (acute) health hazard
10X Restriction Enzyme Buffer	Not applicable.
BSA	Not applicable.
10X dNTP Mix	Not applicable.
Exo(-) Klenow	Immediate (acute) health hazard
Cyanine-3-dUTP	Not applicable.
Cyanine-5-dUTP	Not applicable.
Human Reference DNA Male	Not applicable.
Human Reference DNA Female	Not applicable.
2X HI-RPM Hybridization Buffer	Immediate (acute) health hazard Delayed (chronic) health hazard
10X aCGH Blocking Agent	Immediate (acute) health hazard
Cot-1 DNA	Not applicable.
Agilent Oligo aCGH/ChIP-on-Chip	Not applicable.

Section 15. Regulatory information

Wash Buffer 1	
Agilent Oligo aCGH/ChIP-on-Chip	Not applicable.
Wash Buffer 2	
In Situ DNA Microarray, 2x400K	Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
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.
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.
Exo(-) Klenow						
Glycerol	≥50 - ≤75	No.	No.	No.	Yes.	No.
2X HI-RPM Hybridization Buffer						
4-Morpholineethanesulfonic acid, hydrate (1:1)	≤8.7	Yes.	No.	No.	Yes.	No.
Lithium chloride	≤7.1	No.	No.	No.	Yes.	Yes.
Lithium dodecyl sulphate	≤3.6	Yes.	No.	No.	Yes.	No.
Polyoxyethylene octyl phenyl ether	≤2.4	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.
10X aCGH Blocking Agent						
Trometamol	≥10 - ≤25	Yes.	No.	No.	Yes.	No.
2-Amino-2-(hydroxymethyl)propane-1, 3-diol hydrochloride	≥10 - ≤25	No.	No.	No.	Yes.	No.
In Situ DNA Microarray, 2x400K						
Sodium silicate	≥90	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

International regulations

Section 15. Regulatory information

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

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

Section 16. Other information

History

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Indicates information that has changed from previously issued version.

Notice to reader

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