

SAFETY DATA SHEET



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

Section 1. Identification

Product identifier	: 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

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

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 lyophilised 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.

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

Section 1. Identification

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

Section 2. Hazard(s) identification

Classification of the substance or mixture

2X HI-RPM Hybridization

Buffer

H315	SKIN CORROSION/IRRITATION - Category 2
H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A
H402	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 3

10X aCGH Blocking Agent

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

In Situ DNA Microarray, 2x400K




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

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)

Section 2. Hazard(s) identification

In Situ DNA Microarray, 2x400K	of unknown inhalation toxicity: > 60% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 10 - 30% 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%
5X gDNA Reaction Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3.9%
10X Restriction Enzyme Buffer BSA	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.6% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1%
2X HI-RPM Hybridization Buffer 10X aCGH Blocking Agent	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 6.4% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 16.6%

GHS label elements
Hazard pictograms

: 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	No signal word.
Alu I	No signal word.
Rsa I	No signal word.
10X Restriction Enzyme Buffer	No signal word.
BSA	No signal word.
10X dNTP Mix	No signal word.
Exo(-) Klenow	No signal word.
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

Section 2. Hazard(s) identification

Hazard statements

<ul style="list-style-type: none"> Nuclease-Free Water Random Primers 5X gDNA Reaction Buffer Alu I Rsa I 10X Restriction Enzyme Buffer BSA 10X dNTP Mix Exo(-) Klenow Cyanine-3-dUTP Cyanine-5-dUTP Human Reference DNA Male Human Reference DNA Female 2X HI-RPM Hybridization Buffer 	<ul style="list-style-type: none"> No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. H319 - Causes serious eye irritation.
<ul style="list-style-type: none"> 10X aCGH Blocking Agent 	<ul style="list-style-type: none"> H315 - Causes skin irritation. H402 - Harmful to aquatic life. H319 - Causes serious eye irritation. H315 - Causes skin irritation. H335 - May cause respiratory irritation.
<ul style="list-style-type: none"> Cot-1 DNA Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 In Situ DNA Microarray, 2x400K 	<ul style="list-style-type: none"> No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. H319 - Causes serious eye irritation.
	<ul style="list-style-type: none"> H315 - Causes skin irritation. H335 - May cause respiratory irritation.

Precautionary statements

Prevention

<ul style="list-style-type: none"> Nuclease-Free Water Random Primers 5X gDNA Reaction Buffer Alu I Rsa I 10X Restriction Enzyme Buffer BSA 10X dNTP Mix Exo(-) Klenow Cyanine-3-dUTP Cyanine-5-dUTP Human Reference DNA Male Human Reference DNA Female 2X HI-RPM Hybridization Buffer 	<ul style="list-style-type: none"> Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<ul style="list-style-type: none"> 10X aCGH Blocking Agent 	<ul style="list-style-type: none"> P280 - Wear protective gloves. Wear eye or face protection. P273 - Avoid release to the environment. P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves. Wear eye or face protection. P271 - Use only outdoors or in a well-ventilated area. P261 - Avoid breathing dust. P264 - Wash hands thoroughly after handling.
<ul style="list-style-type: none"> Cot-1 DNA Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2 In Situ DNA Microarray, 	<ul style="list-style-type: none"> Not applicable. Not applicable. Not applicable. P280 - Wear protective gloves. Wear eye or face

Section 2. Hazard(s) identification

	2x400K	protection. P271 - Use only outdoors or in a well-ventilated area. P261 - Avoid breathing dust. P264 - Wash hands thoroughly after handling.
Response	: 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	P302 + P352 + P362 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. P332 + P313 - If skin irritation occurs: Get medical attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
	10X aCGH Blocking Agent	P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P302 + P352 + P362 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. P332 + P313 - If skin irritation occurs: Get medical attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
	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 victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P302 + P352 + P362 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. P332 + P313 - If skin irritation occurs: Get medical attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.

Section 2. Hazard(s) identification

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	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	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
		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

Section 2. Hazard(s) identification

Additional warning phrases	<input checked="" type="checkbox"/>	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.

Other hazards which do not result in classification	<input checked="" type="checkbox"/>	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 and ingredient information

Substance/mixture	<input checked="" type="checkbox"/>	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

Section 3. Composition and ingredient information

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

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
Nuclease-Free Water Water	100	7732-18-5
Alu I Glycerol	≥30 - ≤60	56-81-5
Rsa I Glycerol	≥30 - ≤60	56-81-5
Exo(-) Klenow Glycerol	≥30 - ≤60	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
Polyoxyethylene octyl phenyl ether	≤2	9002-93-1
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-(trimethylsilyloxy)-1-disiloxany]propyl] ether	≤1.5	134180-76-0
10X aCGH Blocking Agent Trometamol	≥10 - ≤30	77-86-1
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	≥10 - ≤30	1185-53-1
In Situ DNA Microarray, 2x400K Sodium silicate	≥90	15859-24-2

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

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

Section 4. First aid measures

Description of necessary first aid measures

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.

Section 4. First aid measures

5X gDNA Reaction Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Alu I	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Rsa I	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
10X Restriction Enzyme Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
BSA	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
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. Get medical attention if irritation occurs.
Cyanine-3-dUTP	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Cyanine-5-dUTP	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
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.

Section 4. First aid measures

	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. 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.
	Alu I	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Rsa I	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	10X Restriction Enzyme Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	BSA	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	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. Get medical attention if symptoms occur.
	Cyanine-3-dUTP	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Cyanine-5-dUTP	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Human Reference DNA Male	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Human Reference DNA Female	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	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 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

Section 4. First aid measures

10X aCGH Blocking Agent	48 hours. 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.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
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	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Alu I	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Rsa I	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
10X Restriction Enzyme Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
BSA	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
10X dNTP Mix	Flush contaminated skin with plenty of water.

Section 4. First aid measures

Exo(-) Klenow	Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water.
Cyanine-3-dUTP	Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water.
Cyanine-5-dUTP	Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water.
Human Reference DNA Male	Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water.
Human Reference DNA Female	Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water.
2X HI-RPM Hybridization Buffer	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. Flush contaminated skin with plenty of water.
10X aCGH Blocking Agent	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. Flush contaminated skin with plenty of water.
Cot-1 DNA	Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water.
In Situ DNA Microarray, 2x400K	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. Flush contaminated skin with plenty of water.
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 victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Alu I	Wash out mouth with water. Remove victim to fresh

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	air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Rsa I	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
10X Restriction Enzyme Buffer	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
BSA	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
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 victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Cyanine-3-dUTP	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Cyanine-5-dUTP	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
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	Wash out mouth with water. Remove victim to fresh

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Female	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 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 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 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

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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.

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	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 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-	No known significant effects or critical hazards.

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	Chip Wash Buffer 2	May cause respiratory irritation.
	In Situ DNA Microarray, 2x400K	
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	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	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 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.

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	No specific data.
	Rsa I	No specific data.
	10X Restriction Enzyme Buffer	No specific data.
	BSA	No specific data.

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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: 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: 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	No specific data.
Alu I	No specific data.
Rsa I	No specific data.
10X Restriction Enzyme Buffer	No specific data.
BSA	No specific data.

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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.
In Situ DNA Microarray, 2x400K	No specific data.

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

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Rsa I	ingested or inhaled. 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.
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	No specific treatment.

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	Female	
	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.
	Alu I	No action shall be taken involving any personal risk or without suitable training.
	Rsa I	No action shall be taken involving any personal risk or without suitable training.
	10X Restriction Enzyme Buffer	No action shall be taken involving any personal risk or without suitable training.
	BSA	No action shall be taken involving any personal risk or without suitable training.
	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.
	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.
	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. Firefighting measures

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 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
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.

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	In Situ DNA Microarray, 2x400K	None known.
Specific hazards arising from the chemical	: <input checked="" type="checkbox"/> 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.
	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. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	10X aCGH Blocking Agent Cot-1 DNA	No specific fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: <input checked="" type="checkbox"/> 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
	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.

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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 Exo(-) Klenow	No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide
Cyanine-3-dUTP Cyanine-5-dUTP Human Reference DNA Male Human Reference DNA Female	No specific data. No specific data. No specific data. 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 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 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1 Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No specific data. No specific data. No specific data.
In Situ DNA Microarray, 2x400K	Decomposition products may include the following materials: metal oxide/oxides

Special protective actions for fire-fighters

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

Section 5. Firefighting measures

	from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
10X 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.
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.

Section 5. Firefighting measures

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 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

Section 5. Firefighting measures

Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Nuclease-Free Water

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

Random Primers

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

5X gDNA Reaction Buffer

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

Alu I

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

Rsa I

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

10X Restriction Enzyme Buffer

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

BSA

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

10X dNTP Mix

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

Section 6. Accidental release measures

Exo(-) Klenow	protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
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 spilt 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 spilt material. Put on appropriate personal protective equipment.
Human Reference DNA Male	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
Human Reference DNA Female	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
2X HI-RPM Hybridization Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour 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 spilt 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 spilt material. Put on appropriate personal protective equipment.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal

Section 6. Accidental release measures

In Situ DNA Microarray,
2x400K

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

For emergency responders :  Nuclease-Free Water

Random Primers

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

5X gDNA Reaction Buffer

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

Alu I

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

Rsa I

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

10X Restriction Enzyme
Buffer

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

BSA

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

10X dNTP Mix

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

Exo(-) Klenow

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

Cyanine-3-dUTP

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

Cyanine-5-dUTP

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

Human Reference DNA Male

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

Human Reference DNA
Female

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

2X HI-RPM Hybridization
Buffer

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

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

Section 6. Accidental release measures

10X aCGH Blocking Agent	suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Cot-1 DNA	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
In Situ DNA Microarray, 2x400K	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Nuclease-Free Water

Random Primers	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
5X gDNA Reaction Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Alu I	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Rsa I	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
10X Restriction Enzyme Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
BSA	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
10X dNTP Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Section 6. Accidental release measures

Exo(-) Klenow	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Cyanine-3-dUTP	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Cyanine-5-dUTP	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Human Reference DNA Male	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Human Reference DNA Female	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
2X HI-RPM Hybridization Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
10X aCGH Blocking Agent	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Cot-1 DNA	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
In Situ DNA Microarray, 2x400K	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

[Methods and material for containment and cleaning up](#)

Section 6. Accidental release measures

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. 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 contractor.

Section 6. Accidental release measures


	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. 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

[Precautions for safe handling](#)

Protective measures	:	<input checked="" type="checkbox"/> 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).
		Alu I	Put on appropriate personal protective equipment (see Section 8).
		Rsa I	Put on appropriate personal protective equipment (see Section 8).
		10X Restriction Enzyme	Put on appropriate personal protective equipment

Section 7. Handling and storage

Buffer	(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).
Cyanine-3-dUTP	Put on appropriate personal protective equipment (see Section 8).
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 ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. 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

Section 7. Handling and storage

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

Section 7. Handling and storage

Human Reference DNA
Female

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.

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.

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 unlabelled

Section 7. Handling and storage

Random Primers

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

5X gDNA Reaction Buffer

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

Alu I

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

Rsa I

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

10X Restriction Enzyme Buffer

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

Section 7. Handling and storage

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

Section 7. Handling and storage

2X HI-RPM Hybridization Buffer

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

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

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

Cot-1 DNA

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

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

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

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

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

Section 7. Handling and storage

In Situ DNA Microarray,
2x400K

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

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Alu I Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
Rsa I Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
Exo(-) Klenow Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
2X HI-RPM Hybridization Buffer Lithium chloride	DFG MAC-values list (Germany, 7/2015). TWA: 0.2 mg/m ³ , (as Li) 8 hours. Form: Inhalable fraction PEAK: 0.2 mg/m ³ , (as Li), 4 times per shift, 15 minutes. Form: Inhalable fraction

- 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: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Section 8. Exposure controls and personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

- 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. [lyophilised 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. |
- Colour** :
- | | |
|---|----------------|
| Nuclease-Free Water | Colourless. |
| 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. |

Section 9. Physical and chemical properties

	In Situ DNA Microarray, 2x400K	Not available.
Odour	: Nuclease-Free Water	Odourless.
	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.
Odour 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

Section 9. Physical and chemical properties

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)

Section 9. Physical and chemical properties

	In Situ DNA Microarray, 2x400K	Not available.
Flash point	: <input checked="" type="checkbox"/> 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	: <input checked="" type="checkbox"/> 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)	: <input checked="" type="checkbox"/> 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.

Section 9. Physical and chemical properties

	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.
	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	N uclease-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.
Vapour pressure	N uclease-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.

Section 9. Physical and chemical properties

	In Situ DNA Microarray, 2x400K	Not available.
Vapour density	: <input checked="" type="checkbox"/> 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.
	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	: <input checked="" type="checkbox"/> 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	: <input checked="" type="checkbox"/> 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.

Section 9. Physical and chemical properties

	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 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	<input checked="" type="checkbox"/> 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	<input checked="" type="checkbox"/> 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.	

Section 9. Physical and chemical properties

	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.
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.

Section 9. Physical and chemical properties

In Situ DNA Microarray,
2x400K

Not available.

Section 10. Stability and reactivity

Reactivity	: <input checked="" type="checkbox"/> 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.
	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.

Chemical stability	: <input checked="" type="checkbox"/> 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.

Section 10. Stability and reactivity

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.

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, 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.

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.

Section 10. Stability and reactivity

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.

Incompatible materials	:	☒ Nuclease-Free Water	May react or be incompatible with oxidising materials.
		Random Primers	May react or be incompatible with oxidising materials.
		5X gDNA Reaction Buffer	May react or be incompatible with oxidising materials.
		Alu I	May react or be incompatible with oxidising materials.
		Rsa I	May react or be incompatible with oxidising materials.
		10X Restriction Enzyme Buffer	May react or be incompatible with oxidising materials.
		BSA	May react or be incompatible with oxidising materials.
		10X dNTP Mix	May react or be incompatible with oxidising materials.
		Exo(-) Klenow	May react or be incompatible with oxidising materials.
		Cyanine-3-dUTP	May react or be incompatible with oxidising materials.
		Cyanine-5-dUTP	May react or be incompatible with oxidising materials.
		Human Reference DNA Male	May react or be incompatible with oxidising materials.
		Human Reference DNA Female	May react or be incompatible with oxidising materials.
		2X HI-RPM Hybridization Buffer	May react or be incompatible with oxidising materials.
		10X aCGH Blocking Agent	May react or be incompatible with oxidising materials.
		Cot-1 DNA	May react or be incompatible with oxidising materials.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 1	May react or be incompatible with oxidising materials.
		Agilent Oligo aCGH/ChIP-on-Chip Wash Buffer 2	May react or be incompatible with oxidising materials.
		In Situ DNA Microarray, 2x400K	May react or be incompatible with oxidising materials.

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,

Section 10. Stability and reactivity

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

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Alu I Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Rsa I Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Exo(-) Klenow Glycerol	LD50 Oral	Rat	12600 mg/kg	-
2X HI-RPM Hybridization Buffer Lithium chloride	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	1629 mg/kg 1488 mg/kg 526 mg/kg	- - -
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 LD50 Oral	Rabbit Rat	1550 mg/kg 3200 mg/kg	- -
10X aCGH Blocking Agent Trometamol	LD50 Dermal LD50 Oral	Rat Rat	>5000 mg/kg 5000 mg/kg	- -

Section 11. Toxicological information

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
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	-
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 ether	Eyes - Moderate irritant	Rabbit	-	24 hours 10 microliters	-
	Skin - Mild irritant	Rabbit	-	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	Rabbit	-	25 Percent	-
	Skin - Severe irritant	Rabbit	-	500 milligrams	-

Sensitisation

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.

Section 11. Toxicological information

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
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
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 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

Section 11. Toxicological information

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	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 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
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
	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.

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	Human Reference DNA Female	No known significant effects or critical hazards.
	2X HI-RPM Hybridization Buffer	Causes skin irritation.
	10X aCGH Blocking Agent Cot-1 DNA	Causes skin irritation.
	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 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	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: pain or irritation watering redness
	10X aCGH Blocking Agent	Adverse symptoms may include the following: pain or irritation watering

Section 11. Toxicological information

		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: 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	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	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.

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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: 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 as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General	: 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	No known significant effects or critical hazards.

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	Female	
	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.
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.

Section 11. Toxicological information

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.
	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
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
	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.

Section 11. Toxicological information

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

Route	ATE value
2X HI-RPM Hybridization Buffer	
Oral	5883.4 mg/kg
Dermal	19854.9 mg/kg
Inhalation (dusts and mists)	25.5 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Alu I Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Rsa I Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Exo(-) Klenow 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
Oxirane, 2-methyl-, polymer with oxirane, mono[3-[1,3,3, 3-tetramethyl-1- (trimethylsilyloxy) -1-disiloxanyl]propyl] ether	Acute LC50 4500 µg/l Fresh water EC50 28.2 mg/l	Fish - Pimephales promelas Algae	96 hours 72 hours
	EC50 1.1 mg/l	Daphnia	48 hours
10X aCGH Blocking Agent Trometamol	Acute EC50 >980 mg/l Fresh water Acute NOEC 520 mg/l Fresh water	Daphnia Daphnia	48 hours 48 hours

Persistence and degradability

Section 12. Ecological information

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

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Nuclease-Free Water Water	-1.38	-	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

Mobility in soil

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

Section 12. Ecological information

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

Section 13. Disposal considerations

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

Section 14. Transport information

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

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

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

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

6, 5

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

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.

Section 15. Regulatory information

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

Section 16. Any other relevant information

History

Date of issue/Date of revision	: 02/10/2017
Date of previous issue	: 11/12/2015.
Version	: 4

Key to abbreviations

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

Procedure used to derive the classification

Classification	Justification
<input checked="" type="checkbox"/> HI-RPM Hybridization Buffer Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 3, H402	Calculation method Calculation method Calculation method
10X aCGH Blocking Agent Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335	Calculation method Calculation method Calculation method
In Situ DNA Microarray, 2x400K Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335	Calculation method Calculation method Calculation method

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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