

Material Safety Data Sheet Agilent Technologies

HaloPlex Exome ILM Box 1-96 reactions

1 . Identification of the material and supplier

Names

Product name : HaloPlex Exome ILM Box 1-96 reactions

Part No. (Chemical Kit) : 5190-8063, 5190-8064

Part No. :

RE Buffer		5190-4997
SSC Buffer		5190-5356
BSA Solution		5190-5409
DNA Ligase		5190-4996
Ligation Solution		5190-4993
Wash Solution		5190-4994
Capture Solution		5190-4995
Primer 1		5190-6282
Primer 2		5190-6283
HaloPlex Indexing Primer A01 - H12		5190-8043
Hybridization Solution		5190-5352
Enrichment Control DNA		5190-5353
HaloPlex Probe 8-Strip		5190-6285 / 5190-6294
Enzyme Strip 1 - well A, B, C, D, E, G, H		5190-5357
Enzyme Strip 1 - well F		5190-5357
Enzyme Strip 2 - well A, B, C, D, E, F, H		5190-5358
Enzyme Strip 2 - well G		5190-5358

ADG : Not regulated as Dangerous Goods according to the ADG Code

Supplier

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

Emergency telephone number : CHEMTREC®: +(61)-290372994

Uses

Area of application :

RE Buffer		Industrial applications, Professional applications.
SSC Buffer		Industrial applications, Professional applications.
BSA Solution		Industrial applications, Professional applications.
DNA Ligase		Industrial applications, Professional applications.
Ligation Solution		Industrial applications, Professional applications.
Wash Solution		Industrial applications, Professional applications.
Capture Solution		Industrial applications, Professional applications.
Primer 1		Industrial applications, Professional applications.
Primer 2		Industrial applications, Professional applications.
HaloPlex Indexing Primer A01 - H02		Industrial applications, Professional applications.
Hybridization Solution		Industrial applications, Professional applications.
Enrichment Control DNA		Industrial applications, Professional applications.
HaloPlex Probe 8-Strip		Industrial applications, Professional applications.
Enzyme Strip 1 - well A, B, C, D, E, G, H		Industrial applications, Professional applications.

1 . Identification of the material and supplier

Enzyme Strip 1 - well F	applications. Industrial applications, Professional applications.
Enzyme Strip 2 - well A, B, C, D, E, F, H	Industrial applications, Professional applications.
Enzyme Strip 2 - well G	Industrial applications, Professional applications.

Material uses

: Analytical reagent.

RE Buffer	4.8 ml
SSC Buffer	16.3 ml (8.15 ml x 2 vials)
BSA Solution	0.115 ml
DNA Ligase	0.34 ml
Ligation Solution	6.5 ml
Wash Solution	14 ml
Capture Solution	4.8 ml
Primer 1	0.27 ml
Primer 2	0.27 ml
HaloPlex Indexing Primer A01 - H12	2.88 ml (0.03 ml / well)
Hybridization Solution	7 ml
Enrichment Control DNA	0.48 ml
HaloPlex Probe 8-Strip	0.12 ml / well
Enzyme Strip 1 - well A, B, C, D, E, G, H	0.075 ml / well
Enzyme Strip 1 - well F	0.075 ml / well
Enzyme Strip 2 - well A, B, C, D, E, F, H	0.075 ml / well
Enzyme Strip 2 - well G	0.075 ml / well

2 . Hazards identification

Classification

: RE Buffer	Not regulated.
SSC Buffer	Not regulated.
BSA Solution	Not regulated.
DNA Ligase	Not regulated.
Ligation Solution	Not regulated.
Wash Solution	Repr. Cat. 2; R61
Capture Solution	Not regulated.
Primer 1	Not regulated.
Primer 2	Not regulated.
HaloPlex Indexing Primer A01 - H02	Not regulated.
Hybridization Solution	Repr. Cat. 2; R61
Enrichment Control DNA	Not regulated.
HaloPlex Probe 8-Strip	Not regulated.
Enzyme Strip 1 - well A, B, C, D, E, G, H	Not regulated.
Enzyme Strip 1 - well F	Not regulated.
Enzyme Strip 2 - well A, B, C, D, E, F, H	Not regulated.
Enzyme Strip 2 - well G	Not regulated.

Risk phrases

: RE Buffer	Not classified.
SSC Buffer	Not classified.
BSA Solution	Not classified.
DNA Ligase	Not classified.
Ligation Solution	Not classified.
Wash Solution	R61- May cause harm to the unborn child.
Capture Solution	Not classified.
Primer 1	Not classified.
Primer 2	Not classified.
HaloPlex Indexing Primer A01 - H02	Not classified.
Hybridization Solution	R61- May cause harm to the unborn child.

2 . Hazards identification

Safety phrases

Enrichment Control DNA	Not classified.
HaloPlex Probe 8-Strip	Not classified.
Enzyme Strip 1 - well A, B, C, D, E, G, H	Not classified.
Enzyme Strip 1 - well F	Not classified.
Enzyme Strip 2 - well A, B, C, D, E, F, H	Not classified.
Enzyme Strip 2 - well G	Not classified.
: RE Buffer	S36- Wear suitable protective clothing.
SSC Buffer	S36- Wear suitable protective clothing.
BSA Solution	S23- Do not breathe vapour. S24/25- Avoid contact with skin and eyes.
DNA Ligase	S36- Wear suitable protective clothing.
Ligation Solution	S36- Wear suitable protective clothing.
Wash Solution	S53- Avoid exposure - obtain special instructions before use. S36- Wear suitable protective clothing.
Capture Solution	S36- Wear suitable protective clothing.
Primer 1	S36- Wear suitable protective clothing.
Primer 2	S36- Wear suitable protective clothing.
HaloPlex Indexing	S36- Wear suitable protective clothing.
Primer A01 - H02	S36- Wear suitable protective clothing.
Hybridization Solution	S53- Avoid exposure - obtain special instructions before use. S36- Wear suitable protective clothing.
Enrichment Control DNA	S36- Wear suitable protective clothing.
HaloPlex Probe 8-Strip	S36- Wear suitable protective clothing.
Enzyme Strip 1 - well A, B, C, D, E, G, H	S23- Do not breathe vapour. S24/25- Avoid contact with skin and eyes.
Enzyme Strip 1 - well F	Not applicable.
Enzyme Strip 2 - well A, B, C, D, E, F, H	S23- Do not breathe vapour. S24/25- Avoid contact with skin and eyes.
Enzyme Strip 2 - well G	S23- Do not breathe vapour. S24/25- Avoid contact with skin and eyes.

**Statement of hazardous/
dangerous nature**

: RE Buffer	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
SSC Buffer	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
BSA Solution	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
DNA Ligase	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Ligation Solution	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Wash Solution	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Capture Solution	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Primer 1	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Primer 2	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
HaloPlex Indexing	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Primer A01 - H02	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Hybridization Solution	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Enrichment Control DNA	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
HaloPlex Probe 8-Strip	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Enzyme Strip 1 - well A, B, C, D, E, G, H	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Enzyme Strip 1 - well F	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

2 . Hazards identification

Enzyme Strip 2 - well A, B, C, D, E, F, H	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Enzyme Strip 2 - well G	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

3 . Composition/information on ingredients

Mixture	:	RE Buffer	Yes.
		SSC Buffer	Yes.
		BSA Solution	Yes.
		DNA Ligase	Yes.
		Ligation Solution	Yes.
		Wash Solution	Yes.
		Capture Solution	Yes.
		Primer 1	Yes.
		Primer 2	Yes.
		HaloPlex Indexing	Yes.
		Primer A01 - H02	
		Hybridization Solution	Yes.
		Enrichment Control DNA	Yes.
		HaloPlex Probe 8-Strip	Yes.
		Enzyme Strip 1 - well A, B, C, D, E, G, H	Yes.
		Enzyme Strip 1 - well F	Yes.
		Enzyme Strip 2 - well A, B, C, D, E, F, H	Yes.
		Enzyme Strip 2 - well G	Yes.

Ingredient name	CAS number	%
BSA Solution Glycerol	56-81-5	<10
DNA Ligase Glycerol	56-81-5	30 - 60
Ligation Solution Glycerol	56-81-5	<10
Wash Solution Formamide	75-12-7	10 - <30
Hybridization Solution Formamide	75-12-7	30 - 60
Enzyme Strip 1 - well A, B, C, D, E, G, H Glycerol	56-81-5	30 - 60
Enzyme Strip 1 - well F Glycerol	56-81-5	30 - 60
Enzyme Strip 2 - well A, B, C, D, E, F, H Glycerol	56-81-5	30 - 60
Enzyme Strip 2 - well G Glycerol	56-81-5	30 - 60

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

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.

4 . First-aid measures

Inhalation	: RE Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	SSC Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	BSA Solution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	DNA Ligase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Ligation Solution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Wash Solution	Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Capture Solution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Primer 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Primer 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	HaloPlex Indexing Primer A01 - H02	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Hybridization Solution	Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Enrichment Control DNA	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	HaloPlex Probe 8-Strip	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Enzyme Strip 1 - well A,	Remove victim to fresh air and keep at rest in a position

4 . First-aid measures

	B, C, D, E, G, H	comfortable for breathing. Get medical attention if symptoms occur.
	Enzyme Strip 1 - well F	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Enzyme Strip 2 - well A, B, C, D, E, F, H	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Enzyme Strip 2 - well G	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Ingestion	: RE 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.
	SSC 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 Solution	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.
	DNA Ligase	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.
	Ligation Solution	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.
	Wash Solution	Get medical attention immediately. 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. 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.
	Capture Solution	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.
	Primer 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

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Primer 2	induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
HaloPlex Indexing Primer A01 - H02	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.
Hybridization Solution	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. 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.
Enrichment Control 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.
HaloPlex Probe 8-Strip	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.
Enzyme Strip 1 - well A, B, C, D, E, G, H	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.
Enzyme Strip 1 - well F	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.
Enzyme Strip 2 - well A, B, C, D, E, F, H	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.
Enzyme Strip 2 - well G	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4 . First-aid measures

Skin contact	: RE Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	SSC Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	BSA Solution	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DNA Ligase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Ligation Solution	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Wash Solution	Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Capture Solution	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Primer 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Primer 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	HaloPlex Indexing Primer A01 - H02	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Hybridization Solution	Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Enrichment Control DNA	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	HaloPlex Probe 8-Strip	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Enzyme Strip 1 - well A, B, C, D, E, G, H	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Enzyme Strip 1 - well F	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Enzyme Strip 2 - well A, B, C, D, E, F, H	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Enzyme Strip 2 - well G	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Eye contact	: RE 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.
	SSC 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

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	occurs.
BSA Solution	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.
DNA Ligase	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.
Ligation Solution	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.
Wash Solution	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Capture Solution	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.
Primer 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.
Primer 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.
HaloPlex Indexing Primer A01 - H02	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.
Hybridization Solution	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Enrichment Control 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.
HaloPlex Probe 8-Strip	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.
Enzyme Strip 1 - well A, B, C, D, E, G, H	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.
Enzyme Strip 1 - well F	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.
Enzyme Strip 2 - well A, B, C, D, E, F, H	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.
Enzyme Strip 2 - well G	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.

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Protection of first-aiders	: RE Buffer	No action shall be taken involving any personal risk or without suitable training.
	SSC Buffer	No action shall be taken involving any personal risk or without suitable training.
	BSA Solution	No action shall be taken involving any personal risk or without suitable training.
	DNA Ligase	No action shall be taken involving any personal risk or without suitable training.
	Ligation Solution	No action shall be taken involving any personal risk or without suitable training.
	Wash Solution	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	Capture Solution	No action shall be taken involving any personal risk or without suitable training.
	Primer 1	No action shall be taken involving any personal risk or without suitable training.
	Primer 2	No action shall be taken involving any personal risk or without suitable training.
	HaloPlex Indexing Primer A01 - H02	No action shall be taken involving any personal risk or without suitable training.
	Hybridization Solution	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	Enrichment Control DNA	No action shall be taken involving any personal risk or without suitable training.
	HaloPlex Probe 8-Strip	No action shall be taken involving any personal risk or without suitable training.
	Enzyme Strip 1 - well A, B, C, D, E, G, H	No action shall be taken involving any personal risk or without suitable training.
	Enzyme Strip 1 - well F	No action shall be taken involving any personal risk or without suitable training.
Enzyme Strip 2 - well A, B, C, D, E, F, H	No action shall be taken involving any personal risk or without suitable training.	
Enzyme Strip 2 - well G	No action shall be taken involving any personal risk or without suitable training.	
Advice to doctor	: RE Buffer	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	SSC Buffer	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	BSA Solution	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	DNA Ligase	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Ligation Solution	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Wash Solution	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.
	Capture Solution	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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Primer 1	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Primer 2	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
HaloPlex Indexing Primer A01 - H02	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Hybridization Solution	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.
Enrichment Control DNA	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
HaloPlex Probe 8-Strip	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Enzyme Strip 1 - well A, B, C, D, E, G, H	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Enzyme Strip 1 - well F	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Enzyme Strip 2 - well A, B, C, D, E, F, H	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Enzyme Strip 2 - well G	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5 . Fire-fighting measures

Extinguishing media

Suitable	: RE Buffer	Use an extinguishing agent suitable for the surrounding fire.
	SSC Buffer	Use an extinguishing agent suitable for the surrounding fire.
	BSA Solution	Use an extinguishing agent suitable for the surrounding fire.
	DNA Ligase	Use an extinguishing agent suitable for the surrounding fire.
	Ligation Solution	Use an extinguishing agent suitable for the surrounding fire.
	Wash Solution	Use an extinguishing agent suitable for the surrounding fire.
	Capture Solution	Use an extinguishing agent suitable for the surrounding fire.
	Primer 1	Use an extinguishing agent suitable for the surrounding fire.
	Primer 2	Use an extinguishing agent suitable for the surrounding fire.
	HaloPlex Indexing Primer A01 - H02	Use an extinguishing agent suitable for the surrounding fire.
	Hybridization Solution	Use an extinguishing agent suitable for the surrounding fire.
	Enrichment Control DNA	Use an extinguishing agent suitable for the surrounding fire.
	HaloPlex Probe 8-Strip	Use an extinguishing agent suitable for the surrounding fire.
	Enzyme Strip 1 - well A, B, C, D, E, G, H	Use an extinguishing agent suitable for the surrounding fire.
	Enzyme Strip 1 - well F	Use an extinguishing agent suitable for the surrounding fire.
	Enzyme Strip 2 - well A,	Use an extinguishing agent suitable for the surrounding

5 . Fire-fighting measures

	B, C, D, E, F, H Enzyme Strip 2 - well G	fire. Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: RE Buffer SSC Buffer BSA Solution DNA Ligase Ligation Solution Wash Solution Capture Solution Primer 1 Primer 2 HaloPlex Indexing Primer A01 - H02 Hybridization Solution Enrichment Control DNA HaloPlex Probe 8-Strip Enzyme Strip 1 - well A, B, C, D, E, G, H Enzyme Strip 1 - well F Enzyme Strip 2 - well A, B, C, D, E, F, H Enzyme Strip 2 - well G	None known. None known. None known. None known. None known. None known. None known. None known. None known. None known. None known. None known. None known. None known. None known. None known. None known. None known. None known.
Special exposure hazards	: RE Buffer SSC Buffer BSA Solution DNA Ligase Ligation Solution Wash Solution Capture Solution Primer 1 Primer 2 HaloPlex Indexing Primer A01 - H02 Hybridization Solution	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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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. 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.

5 . Fire-fighting measures

	the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Enrichment Control 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.
HaloPlex Probe 8-Strip	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.
Enzyme Strip 1 - well A, B, C, D, E, G, H	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.
Enzyme Strip 1 - well F	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.
Enzyme Strip 2 - well A, B, C, D, E, F, H	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.
Enzyme Strip 2 - well G	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.
RE Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
SSC Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
BSA Solution	In a fire or if heated, a pressure increase will occur and the container may burst.
DNA Ligase	In a fire or if heated, a pressure increase will occur and the container may burst.
Ligation Solution	In a fire or if heated, a pressure increase will occur and the container may burst.
Wash Solution	In a fire or if heated, a pressure increase will occur and the container may burst.
Capture Solution	In a fire or if heated, a pressure increase will occur and the container may burst.
Primer 1	In a fire or if heated, a pressure increase will occur and the container may burst.
Primer 2	In a fire or if heated, a pressure increase will occur and the container may burst.
HaloPlex Indexing Primer A01 - H02	In a fire or if heated, a pressure increase will occur and the container may burst.
Hybridization Solution	In a fire or if heated, a pressure increase will occur and the container may burst.
Enrichment Control DNA	In a fire or if heated, a pressure increase will occur and the container may burst.
HaloPlex Probe 8-Strip	In a fire or if heated, a pressure increase will occur and the container may burst.
Enzyme Strip 1 - well A, B, C, D, E, G, H	In a fire or if heated, a pressure increase will occur and the container may burst.
Enzyme Strip 1 - well F	In a fire or if heated, a pressure increase will occur and the container may burst.
Enzyme Strip 2 - well A, B, C, D, E, F, H	In a fire or if heated, a pressure increase will occur and the container may burst.
Enzyme Strip 2 - well G	In a fire or if heated, a pressure increase will occur and the container may burst.

5 . Fire-fighting measures

Hazardous thermal decomposition products	: RE Buffer SSC Buffer BSA Solution	No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide
	DNA Ligase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Ligation Solution	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Wash Solution	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	Capture Solution	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
	Primer 1 Primer 2 HaloPlex Indexing Primer A01 - H02	No specific data. No specific data. No specific data.
	Hybridization Solution	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	Enrichment Control DNA HaloPlex Probe 8-Strip	No specific data. No specific data.
	Enzyme Strip 1 - well A, B, C, D, E, G, H	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Enzyme Strip 1 - well F	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Enzyme Strip 2 - well A, B, C, D, E, F, H	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Enzyme Strip 2 - well G	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	

6 . Accidental release measures

Personal precautions	: RE 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 (see Section 8).
	SSC 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 (see Section 8).
	BSA Solution	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 (see Section 8).
	DNA Ligase	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 (see Section 8).
	Ligation Solution	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 (see Section 8).
	Wash Solution	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
	Capture Solution	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 (see Section 8).
	Primer 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 (see Section 8).
	Primer 2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
	HaloPlex Indexing Primer A01 - H02	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 (see Section 8).
	Hybridization Solution	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

6 . Accidental release measures

	Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Enrichment Control 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 (see Section 8).
HaloPlex Probe 8-Strip	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 (see Section 8).
Enzyme Strip 1 - well A, B, C, D, E, G, H	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 (see Section 8).
Enzyme Strip 1 - well F	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 (see Section 8).
Enzyme Strip 2 - well A, B, C, D, E, F, H	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 (see Section 8).
Enzyme Strip 2 - well G	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 (see Section 8).
Environmental precautions : RE 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).
SSC 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 Solution	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).
DNA Ligase	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).
Ligation Solution	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).
Wash Solution	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the

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Capture Solution	relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). 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).
Primer 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).
Primer 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).
HaloPlex Indexing Primer A01 - H02	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).
Hybridization Solution	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).
Enrichment Control 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).
HaloPlex Probe 8-Strip	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).
Enzyme Strip 1 - well A, B, C, D, E, G, H	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).
Enzyme Strip 1 - well F	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).
Enzyme Strip 2 - well A, B, C, D, E, F, H	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).
Enzyme Strip 2 - well G	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 for cleaning up : RE 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.
SSC 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 Solution	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.
DNA Ligase	Stop leak if without risk. Move containers from spill area.

6 . Accidental release measures

	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.
Ligation Solution	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.
Wash Solution	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.
Capture Solution	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.
Primer 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.
Primer 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.
HaloPlex Indexing Primer A01 - H02	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.
Hybridization Solution	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.
Enrichment Control 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.
HaloPlex Probe 8-Strip	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.
Enzyme Strip 1 - well A, B, C, D, E, G, H	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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Enzyme Strip 1 - well F	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.
Enzyme Strip 2 - well A, B, C, D, E, F, H	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.
Enzyme Strip 2 - well G	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.

7 . Handling and storage

Handling	: RE Buffer	Put on appropriate personal protective equipment (see Section 8). 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.
	SSC Buffer	Put on appropriate personal protective equipment (see Section 8). 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.
	BSA Solution	Put on appropriate personal protective equipment (see Section 8). 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.
	DNA Ligase	Put on appropriate personal protective equipment (see Section 8). 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.
	Ligation Solution	Put on appropriate personal protective equipment (see Section 8). 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.
	Wash Solution	Put on appropriate personal protective equipment (see Section 8). 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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do

7 . Handling and storage

	not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Capture Solution	Put on appropriate personal protective equipment (see Section 8). 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.
Primer 1	Put on appropriate personal protective equipment (see Section 8). 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.
Primer 2	Put on appropriate personal protective equipment (see Section 8). 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.
HaloPlex Indexing Primer A01 - H02	Put on appropriate personal protective equipment (see Section 8). 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.
Hybridization Solution	Put on appropriate personal protective equipment (see Section 8). 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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Enrichment Control DNA	Put on appropriate personal protective equipment (see Section 8). 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.
HaloPlex Probe 8-Strip	Put on appropriate personal protective equipment (see Section 8). 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.

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Enzyme Strip 1 - well A, B, C, D, E, G, H	Put on appropriate personal protective equipment (see Section 8). 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.
Enzyme Strip 1 - well F	Put on appropriate personal protective equipment (see Section 8). 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.
Enzyme Strip 2 - well A, B, C, D, E, F, H	Put on appropriate personal protective equipment (see Section 8). 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.
Enzyme Strip 2 - well G	Put on appropriate personal protective equipment (see Section 8). 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.

Storage

: RE 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.
SSC 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.
BSA Solution	Store between the following temperatures: -20°C (-4°F). 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.
DNA Ligase	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

7 . Handling and storage

Ligation Solution	containment to avoid environmental contamination. Storage temperature: -20°C (-4°F). 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.
Wash Solution	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.
Capture Solution	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.
Primer 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.
Primer 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.
HaloPlex Indexing Primer A01 - H02	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.
Hybridization Solution	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.

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Enrichment Control 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.
HaloPlex Probe 8-Strip	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.
Enzyme Strip 1 - well A, B, C, D, E, G, H	Storage temperature: -20°C (-4°F). 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.
Enzyme Strip 1 - well F	Store between the following temperatures: -20°C (-4°F). 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.
Enzyme Strip 2 - well A, B, C, D, E, F, H	Storage temperature: -20°C (-4°F). 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.
Enzyme Strip 2 - well G	Storage temperature: -20°C (-4°F). 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.

7 . Handling and storage

Combustible liquid	:	RE Buffer	Not applicable.
		SSC Buffer	Not applicable.
		BSA Solution	Combustible liquid Class C2 (AS 1940).
		DNA Ligase	Not applicable.
		Ligation Solution	Not applicable.
		Wash Solution	Not applicable.
		Capture Solution	Not applicable.
		Primer 1	Not applicable.
		Primer 2	Not applicable.
		HaloPlex Indexing	Not applicable.
		Primer A01 - H02	
		Hybridization Solution	Not applicable.
		Enrichment Control DNA	Not applicable.
		HaloPlex Probe 8-Strip	Not applicable.
		Enzyme Strip 1 - well A, B, C, D, E, G, H	Combustible liquid Class C2 (AS 1940).
		Enzyme Strip 1 - well F	Combustible liquid Class C2 (AS 1940).
		Enzyme Strip 2 - well A, B, C, D, E, F, H	Combustible liquid Class C2 (AS 1940).
		Enzyme Strip 2 - well G	Combustible liquid Class C2 (AS 1940).

8 . Exposure controls/personal protection

Occupational exposure limits

Ingredient name	Exposure limits
BSA Solution Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
DNA Ligase Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
Ligation Solution Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
Wash Solution Formamide	Safe Work Australia (Australia, 1/2014). Absorbed through skin. TWA: 18 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
Hybridization Solution Formamide	Safe Work Australia (Australia, 1/2014). Absorbed through skin. TWA: 18 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
Enzyme Strip 1 - well A, B, C, D, E, G, H Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
Enzyme Strip 1 - well F Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
Enzyme Strip 2 - well A, B, C, D, E, F, H Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
Enzyme Strip 2 - well G Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.

No additional exposure standard allocated for other ingredients/components covered by the MSDS other than those listed in the table above.

8 . Exposure controls/personal protection

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Exposure controls

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

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.

Eyes : 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 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.

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

Respiratory : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Skin : 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.

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.

9 . Physical and chemical properties

Physical state	: RE Buffer	Liquid.
	SSC Buffer	Liquid.
	BSA Solution	Liquid. [Clear.]
	DNA Ligase	Liquid. [Viscous liquid.]
	Ligation Solution	Liquid.
	Wash Solution	Liquid.
	Capture Solution	Liquid.
	Primer 1	Liquid.
	Primer 2	Liquid.
	HaloPlex Indexing	Liquid.
	Primer A01 - H02	
	Hybridization Solution	Liquid.
	Enrichment Control DNA	Liquid.
	HaloPlex Probe 8-Strip	Liquid.
	Enzyme Strip 1 - well A, B, C, D, E, G, H	Liquid. [Clear.]
	Enzyme Strip 1 - well F	Liquid. [Clear.]
	Enzyme Strip 2 - well A, B, C, D, E, F, H	Liquid. [Clear.]
	Enzyme Strip 2 - well G	Liquid. [Clear.]

9 . Physical and chemical properties

Colour	: RE Buffer	Not available.	
	SSC Buffer	Not available.	
	BSA Solution	Colourless.	
	DNA Ligase	Colourless.	
	Ligation Solution	Not available.	
	Wash Solution	Not available.	
	Capture Solution	Not available.	
	Primer 1	Not available.	
	Primer 2	Not available.	
	HaloPlex Indexing	Not available.	
	Primer A01 - H02		
	Hybridization Solution	Not available.	
	Enrichment Control DNA	Not available.	
	HaloPlex Probe 8-Strip	Not available.	
	Enzyme Strip 1 - well A, B, C, D, E, G, H	Colourless.	
	Enzyme Strip 1 - well F	Colourless.	
	Enzyme Strip 2 - well A, B, C, D, E, F, H	Colourless.	
	Enzyme Strip 2 - well G	Colourless.	
	Odour	: RE Buffer	Not available.
		SSC Buffer	Not available.
BSA Solution		Odourless.	
DNA Ligase		Odourless.	
Ligation Solution		Not available.	
Wash Solution		Not available.	
Capture Solution		Not available.	
Primer 1		Not available.	
Primer 2		Not available.	
HaloPlex Indexing		Not available.	
Primer A01 - H02			
Hybridization Solution		Not available.	
Enrichment Control DNA		Not available.	
HaloPlex Probe 8-Strip		Not available.	
Enzyme Strip 1 - well A, B, C, D, E, G, H		Odourless.	
Enzyme Strip 1 - well F		Odourless.	
Enzyme Strip 2 - well A, B, C, D, E, F, H		Odourless.	
Enzyme Strip 2 - well G		Odourless.	
Odour threshold		: RE Buffer	Not available.
		SSC Buffer	Not available.
	BSA Solution	Not available.	
	DNA Ligase	Not available.	
	Ligation Solution	Not available.	
	Wash Solution	Not available.	
	Capture Solution	Not available.	
	Primer 1	Not available.	
	Primer 2	Not available.	
	HaloPlex Indexing	Not available.	
	Primer A01 - H02		
	Hybridization Solution	Not available.	
	Enrichment Control DNA	Not available.	
	HaloPlex Probe 8-Strip	Not available.	
	Enzyme Strip 1 - well A, B, C, D, E, G, H	Not available.	
	Enzyme Strip 1 - well F	Not available.	
	Enzyme Strip 2 - well A, B, C, D, E, F, H	Not available.	
	Enzyme Strip 2 - well G	Not available.	

9 . Physical and chemical properties

Boiling point	: RE Buffer	100°C (212°F)	
	SSC Buffer	100°C (212°F)	
	BSA Solution	182°C (359.6°F)	
	DNA Ligase	182°C (359.6°F)	
	Ligation Solution	100°C (212°F)	
	Wash Solution	Not available.	
	Capture Solution	Not available.	
	Primer 1	100°C (212°F)	
	Primer 2	100°C (212°F)	
	HaloPlex Indexing	100°C (212°F)	
	Primer A01 - H02		
	Hybridization Solution	Not available.	
	Enrichment Control DNA	100°C (212°F)	
	HaloPlex Probe 8-Strip	100°C (212°F)	
	Enzyme Strip 1 - well A, B, C, D, E, G, H	182°C (359.6°F)	
	Enzyme Strip 1 - well F	182°C (359.6°F)	
	Enzyme Strip 2 - well A, B, C, D, E, F, H	182°C (359.6°F)	
	Enzyme Strip 2 - well G	182°C (359.6°F)	
	Melting point	: RE Buffer	0°C (32°F)
		SSC Buffer	0°C (32°F)
BSA Solution		20°C (68°F)	
DNA Ligase		-23°C (-9.4°F)	
Ligation Solution		0°C (32°F)	
Wash Solution		Not available.	
Capture Solution		Not available.	
Primer 1		0°C (32°F)	
Primer 2		0°C (32°F)	
HaloPlex Indexing		0°C (32°F)	
Primer A01 - H02			
Hybridization Solution		Not available.	
Enrichment Control DNA		0°C (32°F)	
HaloPlex Probe 8-Strip		0°C (32°F)	
Enzyme Strip 1 - well A, B, C, D, E, G, H		20°C (68°F)	
Enzyme Strip 1 - well F		20°C (68°F)	
Enzyme Strip 2 - well A, B, C, D, E, F, H		20°C (68°F)	
Enzyme Strip 2 - well G		20°C (68°F)	
Vapour pressure		: RE Buffer	Not available.
		SSC Buffer	Not available.
	BSA Solution	<0.13 kPa (<1 mm Hg) [room temperature]	
	DNA Ligase	0.4 kPa (3 mm Hg) [room temperature]	
	Ligation Solution	Not available.	
	Wash Solution	Not available.	
	Capture Solution	Not available.	
	Primer 1	Not available.	
	Primer 2	Not available.	
	HaloPlex Indexing	Not available.	
	Primer A01 - H02		
	Hybridization Solution	Not available.	
	Enrichment Control DNA	Not available.	
	HaloPlex Probe 8-Strip	Not available.	
	Enzyme Strip 1 - well A, B, C, D, E, G, H	<0.13 kPa (<1 mm Hg) [room temperature]	
	Enzyme Strip 1 - well F	<0.13 kPa (<1 mm Hg) [room temperature]	
	Enzyme Strip 2 - well A, B, C, D, E, F, H	<0.13 kPa (<1 mm Hg) [room temperature]	
	Enzyme Strip 2 - well G	<0.13 kPa (<1 mm Hg) [room temperature]	

9 . Physical and chemical properties

Relative density	: RE Buffer	Not available.	
	SSC Buffer	Not available.	
	BSA Solution	1.262	
	DNA Ligase	1.261	
	Ligation Solution	Not available.	
	Wash Solution	Not available.	
	Capture Solution	Not available.	
	Primer 1	Not available.	
	Primer 2	Not available.	
	HaloPlex Indexing	Not available.	
	Primer A01 - H02		
	Hybridization Solution	Not available.	
	Enrichment Control DNA	Not available.	
	HaloPlex Probe 8-Strip	Not available.	
	Enzyme Strip 1 - well A, B, C, D, E, G, H	1.262	
	Enzyme Strip 1 - well F	1.262	
	Enzyme Strip 2 - well A, B, C, D, E, F, H	1.262	
	Enzyme Strip 2 - well G	1.262	
	Flash point	: RE Buffer	Not available.
		SSC Buffer	Not available.
BSA Solution		Closed cup: 160°C (320°F)	
DNA Ligase		Open cup: 176°C (348.8°F)	
Ligation Solution		Not available.	
Wash Solution		Not available.	
Capture Solution		Not available.	
Primer 1		Not available.	
Primer 2		Not available.	
HaloPlex Indexing		Not available.	
Primer A01 - H02			
Hybridization Solution		Not available.	
Enrichment Control DNA		Not available.	
HaloPlex Probe 8-Strip		Not available.	
Enzyme Strip 1 - well A, B, C, D, E, G, H		Closed cup: 160°C (320°F)	
Enzyme Strip 1 - well F		Closed cup: >200°C (>392°F)	
Enzyme Strip 2 - well A, B, C, D, E, F, H	Closed cup: 160°C (320°F)		
Enzyme Strip 2 - well G	Closed cup: 160°C (320°F)		
Flammable limits	: RE Buffer	Not available.	
	SSC Buffer	Not available.	
	BSA Solution	Not available.	
	DNA Ligase	Not available.	
	Ligation Solution	Not available.	
	Wash Solution	Not available.	
	Capture Solution	Not available.	
	Primer 1	Not available.	
	Primer 2	Not available.	
	HaloPlex Indexing	Not available.	
	Primer A01 - H02		
	Hybridization Solution	Not available.	
	Enrichment Control DNA	Not available.	
	HaloPlex Probe 8-Strip	Not available.	
	Enzyme Strip 1 - well A, B, C, D, E, G, H	Not available.	
	Enzyme Strip 1 - well F	Lower: 0.9%	
Enzyme Strip 2 - well A, B, C, D, E, F, H	Not available.		
Enzyme Strip 2 - well G	Not available.		

9 . Physical and chemical properties

Vapour density	:	RE Buffer	Not available.
		SSC Buffer	Not available.
		BSA Solution	3.1 [Air = 1]
		DNA Ligase	3.1 [Air = 1]
		Ligation Solution	Not available.
		Wash Solution	Not available.
		Capture Solution	Not available.
		Primer 1	Not available.
		Primer 2	Not available.
		HaloPlex Indexing	Not available.
		Primer A01 - H02	
		Hybridization Solution	Not available.
		Enrichment Control DNA	Not available.
		HaloPlex Probe 8-Strip	Not available.
		Enzyme Strip 1 - well A, B, C, D, E, G, H	3.1 [Air = 1]
		Enzyme Strip 1 - well F	3.1 [Air = 1]
		Enzyme Strip 2 - well A, B, C, D, E, F, H	3.1 [Air = 1]
		Enzyme Strip 2 - well G	3.1 [Air = 1]
	pH	:	RE Buffer
		SSC Buffer	Not available.
		BSA Solution	Not available.
		DNA Ligase	7.4
		Ligation Solution	Not available.
		Wash Solution	7.5
		Capture Solution	Not available.
		Primer 1	Not available.
		Primer 2	Not available.
		HaloPlex Indexing	Not available.
		Primer A01 - H02	
		Hybridization Solution	7.5
		Enrichment Control DNA	Not available.
		HaloPlex Probe 8-Strip	Not available.
		Enzyme Strip 1 - well A, B, C, D, E, G, H	Not available.
		Enzyme Strip 1 - well F	5.5 to 8
		Enzyme Strip 2 - well A, B, C, D, E, F, H	Not available.
		Enzyme Strip 2 - well G	Not available.
Viscosity		:	RE Buffer
		SSC Buffer	Not available.
		BSA Solution	Not available.
		DNA Ligase	Not available.
		Ligation Solution	Not available.
		Wash Solution	Not available.
		Capture Solution	Not available.
		Primer 1	Not available.
		Primer 2	Not available.
		HaloPlex Indexing	Not available.
		Primer A01 - H02	
		Hybridization Solution	Not available.
		Enrichment Control DNA	Not available.
		HaloPlex Probe 8-Strip	Not available.
		Enzyme Strip 1 - well A, B, C, D, E, G, H	Not available.
		Enzyme Strip 1 - well F	Not available.
		Enzyme Strip 2 - well A, B, C, D, E, F, H	Not available.
		Enzyme Strip 2 - well G	Not available.

9 . Physical and chemical properties

Auto-ignition temperature	: RE Buffer	Not available.
	SSC Buffer	Not available.
	BSA Solution	370°C (698°F)
	DNA Ligase	Not available.
	Ligation Solution	Not available.
	Wash Solution	Not available.
	Capture Solution	Not available.
	Primer 1	Not available.
	Primer 2	Not available.
	HaloPlex Indexing	Not available.
	Primer A01 - H02	
	Hybridization Solution	Not available.
	Enrichment Control DNA	Not available.
	HaloPlex Probe 8-Strip	Not available.
	Enzyme Strip 1 - well A, B, C, D, E, G, H	370°C (698°F)
	Enzyme Strip 1 - well F	370°C (698°F)
	Enzyme Strip 2 - well A, B, C, D, E, F, H	370°C (698°F)
Enzyme Strip 2 - well G	370°C (698°F)	
Evaporation rate	: RE Buffer	Not available.
	SSC Buffer	Not available.
	BSA Solution	Not available.
	DNA Ligase	Not available.
	Ligation Solution	Not available.
	Wash Solution	Not available.
	Capture Solution	Not available.
	Primer 1	Not available.
	Primer 2	Not available.
	HaloPlex Indexing	Not available.
	Primer A01 - H02	
	Hybridization Solution	Not available.
	Enrichment Control DNA	Not available.
	HaloPlex Probe 8-Strip	Not available.
	Enzyme Strip 1 - well A, B, C, D, E, G, H	Not available.
	Enzyme Strip 1 - well F	Not available.
	Enzyme Strip 2 - well A, B, C, D, E, F, H	Not available.
Enzyme Strip 2 - well G	Not available.	
Solubility	: RE Buffer	Easily soluble in the following materials: cold water and hot water.
	SSC Buffer	Easily soluble in the following materials: cold water and hot water.
	BSA Solution	Soluble in the following materials: cold water and hot water.
	DNA Ligase	Easily soluble in the following materials: cold water and hot water.
	Ligation Solution	Easily soluble in the following materials: cold water and hot water.
	Wash Solution	Soluble in the following materials: cold water and hot water.
	Capture Solution	Easily soluble in the following materials: cold water and hot water.
	Primer 1	Easily soluble in the following materials: cold water and hot water.
	Primer 2	Easily soluble in the following materials: cold water and hot water.
	HaloPlex Indexing	Easily soluble in the following materials: cold water and hot water.
	Primer A01 - H02	
	Hybridization Solution	Soluble in the following materials: cold water and hot water.
	Enrichment Control DNA	Easily soluble in the following materials: cold water and hot water.

9 . Physical and chemical properties

HaloPlex Probe 8-Strip	Easily soluble in the following materials: cold water and hot water.
Enzyme Strip 1 - well A, B, C, D, E, G, H	Soluble in the following materials: cold water and hot water.
Enzyme Strip 1 - well F	Soluble in the following materials: cold water and hot water.
Enzyme Strip 2 - well A, B, C, D, E, F, H	Soluble in the following materials: cold water and hot water.
Enzyme Strip 2 - well G	Soluble in the following materials: cold water and hot water.

10 . Stability and reactivity

Chemical stability

: RE Buffer	The product is stable.
SSC Buffer	The product is stable.
BSA Solution	The product is stable.
DNA Ligase	The product is stable.
Ligation Solution	The product is stable.
Wash Solution	The product is stable.
Capture Solution	The product is stable.
Primer 1	The product is stable.
Primer 2	The product is stable.
HaloPlex Indexing	The product is stable.
Primer A01 - H02	
Hybridization Solution	The product is stable.
Enrichment Control DNA	The product is stable.
HaloPlex Probe 8-Strip	The product is stable.
Enzyme Strip 1 - well A, B, C, D, E, G, H	The product is stable.
Enzyme Strip 1 - well F	The product is stable.
Enzyme Strip 2 - well A, B, C, D, E, F, H	The product is stable.
Enzyme Strip 2 - well G	The product is stable.

Possibility of hazardous reactions

: RE Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
SSC Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
BSA Solution	Under normal conditions of storage and use, hazardous reactions will not occur.
DNA Ligase	Under normal conditions of storage and use, hazardous reactions will not occur.
Ligation Solution	Under normal conditions of storage and use, hazardous reactions will not occur.
Wash Solution	Under normal conditions of storage and use, hazardous reactions will not occur.
Capture Solution	Under normal conditions of storage and use, hazardous reactions will not occur.
Primer 1	Under normal conditions of storage and use, hazardous reactions will not occur.
Primer 2	Under normal conditions of storage and use, hazardous reactions will not occur.
HaloPlex Indexing	Under normal conditions of storage and use, hazardous reactions will not occur.
Primer A01 - H02	
Hybridization Solution	Under normal conditions of storage and use, hazardous reactions will not occur.
Enrichment Control DNA	Under normal conditions of storage and use, hazardous reactions will not occur.
HaloPlex Probe 8-Strip	Under normal conditions of storage and use, hazardous reactions will not occur.
Enzyme Strip 1 - well A, B, C, D, E, G, H	Under normal conditions of storage and use, hazardous reactions will not occur.
Enzyme Strip 1 - well F	Under normal conditions of storage and use, hazardous reactions will not occur.
Enzyme Strip 2 - well A, B, C, D, E, F, H	Under normal conditions of storage and use, hazardous reactions will not occur.

10 . Stability and reactivity

	Enzyme Strip 2 - well G	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: RE Buffer	No specific data.
	SSC Buffer	No specific data.
	BSA Solution	No specific data.
	DNA Ligase	No specific data.
	Ligation Solution	No specific data.
	Wash Solution	No specific data.
	Capture Solution	No specific data.
	Primer 1	No specific data.
	Primer 2	No specific data.
	HaloPlex Indexing	No specific data.
	Primer A01 - H02	
	Hybridization Solution	No specific data.
	Enrichment Control DNA	No specific data.
	HaloPlex Probe 8-Strip	No specific data.
	Enzyme Strip 1 - well A, B, C, D, E, G, H	No specific data.
	Enzyme Strip 1 - well F	No specific data.
Enzyme Strip 2 - well A, B, C, D, E, F, H	No specific data.	
Enzyme Strip 2 - well G	No specific data.	
Materials to avoid	: RE Buffer	No specific data.
	SSC Buffer	No specific data.
	BSA Solution	No specific data.
	DNA Ligase	No specific data.
	Ligation Solution	No specific data.
	Wash Solution	No specific data.
	Capture Solution	No specific data.
	Primer 1	No specific data.
	Primer 2	No specific data.
	HaloPlex Indexing	No specific data.
	Primer A01 - H02	
	Hybridization Solution	No specific data.
	Enrichment Control DNA	No specific data.
	HaloPlex Probe 8-Strip	No specific data.
	Enzyme Strip 1 - well A, B, C, D, E, G, H	No specific data.
	Enzyme Strip 1 - well F	No specific data.
Enzyme Strip 2 - well A, B, C, D, E, F, H	No specific data.	
Enzyme Strip 2 - well G	No specific data.	
Hazardous decomposition products	: RE Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	SSC Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	BSA Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	DNA Ligase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Ligation Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Wash Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Capture Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Primer 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Primer 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	HaloPlex Indexing	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Primer A01 - H02	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Hybridization Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

10 . Stability and reactivity

Enrichment Control DNA	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
HaloPlex Probe 8-Strip	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Enzyme Strip 1 - well A, B, C, D, E, G, H	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Enzyme Strip 1 - well F	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Enzyme Strip 2 - well A, B, C, D, E, F, H	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Enzyme Strip 2 - well G	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 . Toxicological information

Potential acute health effects

Inhalation

: RE Buffer	No known significant effects or critical hazards.
SSC Buffer	No known significant effects or critical hazards.
BSA Solution	No known significant effects or critical hazards.
DNA Ligase	No known significant effects or critical hazards.
Ligation Solution	No known significant effects or critical hazards.
Wash Solution	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Capture Solution	No known significant effects or critical hazards.
Primer 1	No known significant effects or critical hazards.
Primer 2	No known significant effects or critical hazards.
HaloPlex Indexing	No known significant effects or critical hazards.
Primer A01 - H02	
Hybridization Solution	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Enrichment Control DNA	No known significant effects or critical hazards.
HaloPlex Probe 8-Strip	No known significant effects or critical hazards.
Enzyme Strip 1 - well A, B, C, D, E, G, H	No known significant effects or critical hazards.
Enzyme Strip 1 - well F	No known significant effects or critical hazards.
Enzyme Strip 2 - well A, B, C, D, E, F, H	No known significant effects or critical hazards.
Enzyme Strip 2 - well G	No known significant effects or critical hazards.

Ingestion

: RE Buffer	No known significant effects or critical hazards.
SSC Buffer	No known significant effects or critical hazards.
BSA Solution	No known significant effects or critical hazards.
DNA Ligase	No known significant effects or critical hazards.
Ligation Solution	No known significant effects or critical hazards.
Wash Solution	No known significant effects or critical hazards.
Capture Solution	No known significant effects or critical hazards.
Primer 1	No known significant effects or critical hazards.
Primer 2	No known significant effects or critical hazards.
HaloPlex Indexing	No known significant effects or critical hazards.
Primer A01 - H02	
Hybridization Solution	No known significant effects or critical hazards.
Enrichment Control DNA	No known significant effects or critical hazards.
HaloPlex Probe 8-Strip	No known significant effects or critical hazards.
Enzyme Strip 1 - well A, B, C, D, E, G, H	No known significant effects or critical hazards.
Enzyme Strip 1 - well F	No known significant effects or critical hazards.
Enzyme Strip 2 - well A, B, C, D, E, F, H	No known significant effects or critical hazards.
Enzyme Strip 2 - well G	No known significant effects or critical hazards.

11 . Toxicological information

Enzyme Strip 1 - well F Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Enzyme Strip 2 - well A, B, C, D, E, F, H Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Enzyme Strip 2 - well G Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Conclusion/Summary : Not available.

Potential chronic health effects**Chronic toxicity**

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
BSA Solution Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
DNA Ligase Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Ligation Solution Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Wash Solution Formamide	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
Hybridization Solution Formamide	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
Enzyme Strip 1 - well A, B, C, D, E, G, H Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Enzyme Strip 1 - well F Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Enzyme Strip 2 - well A, B, C, D, E, F, H Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

11 . Toxicological information

Enzyme Strip 2 - well G Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Product name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
Wash Solution Formamide	-	-	Repr. Cat. 2; R61	-
Hybridization Solution Formamide	-	-	Repr. Cat. 2; R61	-

Chronic effects : RE Buffer No known significant effects or critical hazards.
 SSC Buffer No known significant effects or critical hazards.
 BSA Solution No known significant effects or critical hazards.
 DNA Ligase No known significant effects or critical hazards.
 Ligation Solution No known significant effects or critical hazards.
 Wash Solution No known significant effects or critical hazards.
 Capture Solution No known significant effects or critical hazards.
 Primer 1 No known significant effects or critical hazards.
 Primer 2 No known significant effects or critical hazards.
 HaloPlex Indexing No known significant effects or critical hazards.
 Primer A01 - H02
 Hybridization Solution No known significant effects or critical hazards.
 Enrichment Control DNA No known significant effects or critical hazards.
 HaloPlex Probe 8-Strip No known significant effects or critical hazards.
 Enzyme Strip 1 - well A, B, C, D, E, G, H No known significant effects or critical hazards.
 Enzyme Strip 1 - well F No known significant effects or critical hazards.
 Enzyme Strip 2 - well A, B, C, D, E, F, H No known significant effects or critical hazards.
 Enzyme Strip 2 - well G No known significant effects or critical hazards.

Carcinogenicity : RE Buffer No known significant effects or critical hazards.
 SSC Buffer No known significant effects or critical hazards.
 BSA Solution No known significant effects or critical hazards.
 DNA Ligase No known significant effects or critical hazards.
 Ligation Solution No known significant effects or critical hazards.
 Wash Solution No known significant effects or critical hazards.
 Capture Solution No known significant effects or critical hazards.
 Primer 1 No known significant effects or critical hazards.
 Primer 2 No known significant effects or critical hazards.
 HaloPlex Indexing No known significant effects or critical hazards.
 Primer A01 - H02
 Hybridization Solution No known significant effects or critical hazards.
 Enrichment Control DNA No known significant effects or critical hazards.
 HaloPlex Probe 8-Strip No known significant effects or critical hazards.
 Enzyme Strip 1 - well A, B, C, D, E, G, H No known significant effects or critical hazards.
 Enzyme Strip 1 - well F No known significant effects or critical hazards.
 Enzyme Strip 2 - well A, No known significant effects or critical hazards.

11 . Toxicological information

	B, C, D, E, F, H	
	Enzyme Strip 2 - well G	No known significant effects or critical hazards.
Mutagenicity	: RE Buffer	No known significant effects or critical hazards.
	SSC Buffer	No known significant effects or critical hazards.
	BSA Solution	No known significant effects or critical hazards.
	DNA Ligase	No known significant effects or critical hazards.
	Ligation Solution	No known significant effects or critical hazards.
	Wash Solution	No known significant effects or critical hazards.
	Capture Solution	No known significant effects or critical hazards.
	Primer 1	No known significant effects or critical hazards.
	Primer 2	No known significant effects or critical hazards.
	HaloPlex Indexing	No known significant effects or critical hazards.
	Primer A01 - H02	
	Hybridization Solution	No known significant effects or critical hazards.
	Enrichment Control DNA	No known significant effects or critical hazards.
	HaloPlex Probe 8-Strip	No known significant effects or critical hazards.
	Enzyme Strip 1 - well A, B, C, D, E, G, H	No known significant effects or critical hazards.
	Enzyme Strip 1 - well F	No known significant effects or critical hazards.
	Enzyme Strip 2 - well A, B, C, D, E, F, H	No known significant effects or critical hazards.
	Enzyme Strip 2 - well G	No known significant effects or critical hazards.
Teratogenicity	: RE Buffer	No known significant effects or critical hazards.
	SSC Buffer	No known significant effects or critical hazards.
	BSA Solution	No known significant effects or critical hazards.
	DNA Ligase	No known significant effects or critical hazards.
	Ligation Solution	No known significant effects or critical hazards.
	Wash Solution	May cause birth defects.
	Capture Solution	No known significant effects or critical hazards.
	Primer 1	No known significant effects or critical hazards.
	Primer 2	No known significant effects or critical hazards.
	HaloPlex Indexing	No known significant effects or critical hazards.
	Primer A01 - H02	
	Hybridization Solution	May cause birth defects.
	Enrichment Control DNA	No known significant effects or critical hazards.
	HaloPlex Probe 8-Strip	No known significant effects or critical hazards.
	Enzyme Strip 1 - well A, B, C, D, E, G, H	No known significant effects or critical hazards.
	Enzyme Strip 1 - well F	No known significant effects or critical hazards.
	Enzyme Strip 2 - well A, B, C, D, E, F, H	No known significant effects or critical hazards.
	Enzyme Strip 2 - well G	No known significant effects or critical hazards.
Developmental effects	: RE Buffer	No known significant effects or critical hazards.
	SSC Buffer	No known significant effects or critical hazards.
	BSA Solution	No known significant effects or critical hazards.
	DNA Ligase	No known significant effects or critical hazards.
	Ligation Solution	No known significant effects or critical hazards.
	Wash Solution	No known significant effects or critical hazards.
	Capture Solution	No known significant effects or critical hazards.
	Primer 1	No known significant effects or critical hazards.
	Primer 2	No known significant effects or critical hazards.
	HaloPlex Indexing	No known significant effects or critical hazards.
	Primer A01 - H02	
	Hybridization Solution	No known significant effects or critical hazards.
	Enrichment Control DNA	No known significant effects or critical hazards.
	HaloPlex Probe 8-Strip	No known significant effects or critical hazards.
	Enzyme Strip 1 - well A, B, C, D, E, G, H	No known significant effects or critical hazards.
	Enzyme Strip 1 - well F	No known significant effects or critical hazards.
	Enzyme Strip 2 - well A, B, C, D, E, F, H	No known significant effects or critical hazards.
	Enzyme Strip 2 - well G	No known significant effects or critical hazards.

11 . Toxicological information

Fertility effects	:	RE Buffer	No known significant effects or critical hazards.	
		SSC Buffer	No known significant effects or critical hazards.	
		BSA Solution	No known significant effects or critical hazards.	
		DNA Ligase	No known significant effects or critical hazards.	
		Ligation Solution	No known significant effects or critical hazards.	
		Wash Solution	No known significant effects or critical hazards.	
		Capture Solution	No known significant effects or critical hazards.	
		Primer 1	No known significant effects or critical hazards.	
		Primer 2	No known significant effects or critical hazards.	
		HaloPlex Indexing	No known significant effects or critical hazards.	
		Primer A01 - H02		
		Hybridization Solution	No known significant effects or critical hazards.	
		Enrichment Control DNA	No known significant effects or critical hazards.	
		HaloPlex Probe 8-Strip	No known significant effects or critical hazards.	
		Enzyme Strip 1 - well A, B, C, D, E, G, H	No known significant effects or critical hazards.	
		Enzyme Strip 1 - well F	No known significant effects or critical hazards.	
	Enzyme Strip 2 - well A, B, C, D, E, F, H	No known significant effects or critical hazards.		
	Enzyme Strip 2 - well G	No known significant effects or critical hazards.		
<u>Over-exposure signs/symptoms</u>				
Inhalation	:	RE Buffer	No specific data.	
		SSC Buffer	No specific data.	
		BSA Solution	No specific data.	
		DNA Ligase	No specific data.	
		Ligation Solution	No specific data.	
		Wash Solution	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations	
		Capture Solution	No specific data.	
		Primer 1	No specific data.	
		Primer 2	No specific data.	
		HaloPlex Indexing	No specific data.	
		Primer A01 - H02		
		Hybridization Solution	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations	
		Enrichment Control DNA	No specific data.	
		HaloPlex Probe 8-Strip	No specific data.	
		Enzyme Strip 1 - well A, B, C, D, E, G, H	No specific data.	
		Enzyme Strip 1 - well F	No specific data.	
		Enzyme Strip 2 - well A, B, C, D, E, F, H	No specific data.	
		Enzyme Strip 2 - well G	No specific data.	
	Ingestion	:	RE Buffer	No specific data.
			SSC Buffer	No specific data.
		BSA Solution	No specific data.	
		DNA Ligase	No specific data.	
		Ligation Solution	No specific data.	
		Wash Solution	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations	
		Capture Solution	No specific data.	
		Primer 1	No specific data.	
		Primer 2	No specific data.	
		HaloPlex Indexing	No specific data.	
		Primer A01 - H02		
		Hybridization Solution	Adverse symptoms may include the following: reduced foetal weight	

11 . Toxicological information

		increase in foetal deaths skeletal malformations
	Enrichment Control DNA	No specific data.
	HaloPlex Probe 8-Strip	No specific data.
	Enzyme Strip 1 - well A, B, C, D, E, G, H	No specific data.
	Enzyme Strip 1 - well F	No specific data.
	Enzyme Strip 2 - well A, B, C, D, E, F, H	No specific data.
	Enzyme Strip 2 - well G	No specific data.
Skin	: RE Buffer	No specific data.
	SSC Buffer	No specific data.
	BSA Solution	No specific data.
	DNA Ligase	No specific data.
	Ligation Solution	No specific data.
	Wash Solution	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	Capture Solution	No specific data.
	Primer 1	No specific data.
	Primer 2	No specific data.
	HaloPlex Indexing	No specific data.
	Primer A01 - H02	
	Hybridization Solution	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	Enrichment Control DNA	No specific data.
	HaloPlex Probe 8-Strip	No specific data.
	Enzyme Strip 1 - well A, B, C, D, E, G, H	No specific data.
	Enzyme Strip 1 - well F	No specific data.
	Enzyme Strip 2 - well A, B, C, D, E, F, H	No specific data.
	Enzyme Strip 2 - well G	No specific data.
Eyes	: RE Buffer	No specific data.
	SSC Buffer	No specific data.
	BSA Solution	No specific data.
	DNA Ligase	No specific data.
	Ligation Solution	No specific data.
	Wash Solution	No specific data.
	Capture Solution	No specific data.
	Primer 1	No specific data.
	Primer 2	No specific data.
	HaloPlex Indexing	No specific data.
	Primer A01 - H02	
	Hybridization Solution	No specific data.
	Enrichment Control DNA	No specific data.
	HaloPlex Probe 8-Strip	No specific data.
	Enzyme Strip 1 - well A, B, C, D, E, G, H	No specific data.
	Enzyme Strip 1 - well F	No specific data.
	Enzyme Strip 2 - well A, B, C, D, E, F, H	No specific data.
	Enzyme Strip 2 - well G	No specific data.
Other adverse symptoms	: RE Buffer	Not available.
	SSC Buffer	Not available.
	BSA Solution	Not available.
	DNA Ligase	Not available.
	Ligation Solution	Not available.
	Wash Solution	Not available.
	Capture Solution	Not available.

11 . Toxicological information

	Primer 1	Not available.
	Primer 2	Not available.
	HaloPlex Indexing	Not available.
	Primer A01 - H02	
	Hybridization Solution	Not available.
	Enrichment Control DNA	Not available.
	HaloPlex Probe 8-Strip	Not available.
	Enzyme Strip 1 - well A, B, C, D, E, G, H	Not available.
	Enzyme Strip 1 - well F	Not available.
	Enzyme Strip 2 - well A, B, C, D, E, F, H	Not available.
	Enzyme Strip 2 - well G	Not available.
Target organs	: RE Buffer	Not available.
	SSC Buffer	Not available.
	BSA Solution	Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eye, lens or cornea.
	DNA Ligase	Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eye, lens or cornea.
	Ligation Solution	Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eye, lens or cornea.
	Wash Solution	Contains material which may cause damage to the following organs: kidneys, the reproductive system, liver, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea, stomach.
	Capture Solution	Contains material which may cause damage to the following organs: upper respiratory tract, skin, eyes, stomach.
	Primer 1	Not available.
	Primer 2	Not available.
	HaloPlex Indexing	Not available.
	Primer A01 - H02	
	Hybridization Solution	Contains material which may cause damage to the following organs: kidneys, the reproductive system, liver, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea, stomach.
	Enrichment Control DNA	Not available.
	HaloPlex Probe 8-Strip	Not available.
	Enzyme Strip 1 - well A, B, C, D, E, G, H	Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eye, lens or cornea.
	Enzyme Strip 1 - well F	Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eye, lens or cornea.
	Enzyme Strip 2 - well A, B, C, D, E, F, H	Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eye, lens or cornea.
	Enzyme Strip 2 - well G	Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eye, lens or cornea, stomach.

12 . Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Other ecological information

Bioaccumulative potential

12 . Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
BSA Solution Glycerol	-1.76	-	low
DNA Ligase Glycerol	-1.76	-	low
Ligation Solution Glycerol	-1.76	-	low
Wash Solution Formamide	-0.82	-	low
Hybridization Solution Formamide	-0.82	-	low
Enzyme Strip 1 - well A, B, C, D, E, G, H Glycerol	-1.76	-	low
Enzyme Strip 1 - well F Glycerol	-1.76	-	low
Enzyme Strip 2 - well A, B, C, D, E, F, H Glycerol	-1.76	-	low
Enzyme Strip 2 - well G Glycerol	-1.76	-	low

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

13 . Disposal considerations

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

14 . Transport information

Regulatory information

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

15 . Regulatory information

Standard Uniform Schedule of Medicine and Poisons

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Control of Scheduled Carcinogenic Substances

Ingredient name	Schedule
No listed substance	

Australia inventory (AICS) : Not determined.

16 . Other information

Date of issue : 09/12/2014

Date of previous issue : No previous validation.

✔ Indicates information that has changed from previously issued version.

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