SAFETY DATA SHEET



HaloPlex ILM Pre-Pack - 96 Reactions, Part Number 5190-8636

Section 1. Identification

Product identifier : HaloPlex ILM Pre-Pack - 96 Reactions, Part Number 5190-8636

Part no. (chemical kit) : 5190-8636

Part no. : RE Buffer

SSC Buffer 5190-5356 **BSA Solution** 5190-5409 **DNA Ligase** 5190-7830 5190-7833 **Ligation Solution** Wash Solution 5190-4994 Capture Solution 5190-4995 Primer 1 5190-5354 Primer 2 5190-5355 HaloPlex Indexing Primer A01 - H12 5190-8025 **Hybridization Solution** 5190-5352 **Enrichment Control DNA** 5190-5353 Enzyme Strip 1 5190-5357 Enzyme Strip 2 5190-5358

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

Identified uses : Malytical reagent.

RE Buffer 4.8 ml (96 reactions) SSC Buffer 2 x 8.15 ml (96 reactions) **BSA Solution** 0.115 ml (96 reactions) **DNA Ligase** 0.34 ml (96 reactions) **Ligation Solution** 6.5 ml (96 reactions) Wash Solution 14 ml (96 reactions) Capture Solution 4.8 ml (96 reactions) Primer 1 0.13 ml (96 reactions) Primer 2 0.13 ml (96 reactions)

5190-4997

HaloPlex Indexing Primer A01 - H12
Hybridization Solution
Enrichment Control DNA
Enzyme Strip 1
Enzyme Strip 2

96 x 0.015 ml
7 ml (96 reactions)
0.48 ml (96 reactions)
8 x 0.075 ml (96 reactions)
8 x 0.075 ml (96 reactions)

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd

679 Springvale Road

Mulgrave

Victoria 3170, Australia

1800 802 402

Emergency telephone number (with hours of operation)

: CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

DNA Ligase

H320 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

Wash Solution

H351 CARCINOGENICITY - Category 2
H360 REPRODUCTIVE TOXICITY - Category 1

H373 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 1/49

Section 2. Hazard(s) identification

Hybridization Solution

H351 CARCINOGENICITY - Category 2 H360 REPRODUCTIVE TOXICITY - Category 1

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 H373

Enzyme Strip 1

H320 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

Enzyme Strip 2

H320 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B

GHS label elements

: Wash Solution **Hazard pictograms**



Hybridization Solution



Signal word

: RE Buffer No signal word. SSC Buffer No signal word. **BSA Solution** No signal word. **DNA Ligase** WARNING **Ligation Solution** No signal word. Wash Solution **DANGER** Capture Solution No signal word. Primer 1 No signal word. Primer 2 No signal word. HaloPlex Indexing Primer No signal word.

A01 - H12

Hybridization Solution **DANGER Enrichment Control DNA** No signal word. Enzyme Strip 1 WARNING Enzyme Strip 2 WARNING

Hazard statements

: RE Buffer No known significant effects or critical hazards. SSC Buffer No known significant effects or critical hazards. No known significant effects or critical hazards. **BSA Solution DNA Ligase** H320 - Causes eye irritation. **Ligation Solution** No known significant effects or critical hazards.

Wash Solution H351 - Suspected of causing cancer.

H360 - May damage fertility or the unborn child. H373 - May cause damage to organs through

prolonged or repeated 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 Primer No known significant effects or critical hazards.

A01 - H12

Hybridization Solution H351 - Suspected of causing cancer.

H360 - May damage fertility or the unborn child. H373 - May cause damage to organs through

prolonged or repeated exposure.

Enrichment Control DNA

Enzyme Strip 1 Enzyme Strip 2 No known significant effects or critical hazards. H320 - Causes eye irritation.

H320 - Causes eye irritation.

Precautionary statements

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version:5 2/49 Response

Section 2. Hazard(s) identification

RE Buffer **Prevention**

Not applicable. SSC Buffer Not applicable. Not applicable. **BSA Solution** Not applicable. **DNA Ligase** Ligation Solution Not applicable.

Wash Solution P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing

and eye or face protection.

P260 - Do not breathe vapour.

Capture Solution Not applicable. Primer 1 Not applicable. Primer 2 Not applicable. HaloPlex Indexing Primer Not applicable.

A01 - H12

Enrichment Control DNA

Hybridization Solution P201 - Obtain special instructions before use.

Not applicable.

P280 - Wear protective gloves, protective clothing

and eye or face protection. P260 - Do not breathe vapour.

Enzyme Strip 1 Not applicable. Enzyme Strip 2 Not applicable. RE Buffer Not applicable. SSC Buffer Not applicable.

BSA Solution Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously **DNA Ligase**

> with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical

advice or attention.

Ligation Solution Not applicable.

Wash Solution P308 + P313 - IF exposed or concerned: Get medical

advice or attention.

Capture Solution Not applicable. Primer 1 Not applicable. Primer 2 Not applicable. HaloPlex Indexing Primer Not applicable.

A01 - H12

Hybridization Solution P308 + P313 - IF exposed or concerned: Get medical

advice or attention.

Enrichment Control DNA

Enzyme Strip 1

Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical

advice or attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously Enzyme Strip 2

> with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical

advice or attention.

: RE Buffer Not applicable. **Storage** Not applicable. SSC Buffer

Not applicable. **BSA Solution DNA Ligase** Not applicable. **Ligation Solution** Not applicable. Not applicable. Wash Solution Capture Solution Not applicable. Primer 1 Not applicable. Primer 2 Not applicable. Not applicable.

HaloPlex Indexing Primer

A01 - H12

Hybridization Solution Not applicable.

Date of issue/Date of revision : 01/02/2024 3/49 Date of previous issue : 17/02/2021 Version:5

Section 2. Hazard(s) identification

Disposal

Enrichment Control DNA Not applicable. Enzyme Strip 1 Not applicable. Enzyme Strip 2 Not applicable. : RE Buffer Not applicable. SSC Buffer Not applicable. Not applicable. **BSA Solution DNA Ligase** Not applicable. Ligation Solution Not applicable.

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

international regulations.

Capture Solution Not applicable.
Primer 1 Not applicable.
Primer 2 Not applicable.
HaloPlex Indexing Primer Not applicable.

A01 - H12

Wash Solution

Hybridization Solution P501 - Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Enrichment Control DNA Not applicable.
Enzyme Strip 1 Not applicable.
Enzyme Strip 2 Not applicable.

Supplemental label elements

Additional warning phrases

: RE Buffer Not applicable. SSC Buffer Not applicable. **BSA Solution** Not applicable. Not applicable. **DNA Ligase** Ligation Solution Not applicable. Not applicable. Wash Solution Capture Solution Not applicable. Primer 1 Not applicable. Not applicable. Primer 2 HaloPlex Indexing Primer Not applicable.

A01 - H12
Hybridization Solution
Enrichment Control DNA
Enzyme Strip 1
Enzyme Strip 2

Not applicable.
Not applicable.
Not applicable.
Not applicable.

Other hazards which do not result in classification

RE Buffer None known. SSC Buffer None known. **BSA Solution** None known. **DNA Ligase** None known. Ligation Solution None known. Wash Solution None known. Capture Solution None known. None known. Primer 1 Primer 2 None known. HaloPlex Indexing Primer None known.

A01 - H12

Hybridization Solution
Enrichment Control DNA
Enzyme Strip 1
Enzyme Strip 2

None known.
None known.
None known.
None known.

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 4/49

Section 3. Composition and ingredient information

Substance/mixture

: RE Buffer Mixture SSC Buffer Mixture **BSA Solution** Mixture **DNA Ligase** Mixture Ligation Solution Mixture Wash Solution Mixture Capture Solution Mixture Primer 1 Mixture Primer 2 Mixture HaloPlex Indexing Primer Mixture A01 - H12 **Hybridization Solution** Mixture **Enrichment Control DNA** Mixture Enzyme Strip 1 Mixture Enzyme Strip 2 Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
BSA Solution		
Glycerol	<10	56-81-5
DNA Ligase		
Glycerol	≥30 - ≤60	56-81-5
Wash Solution		
Formamide	≥10 - ≤30	75-12-7
Hybridization Solution		
Formamide	≥30 - ≤60	75-12-7
Enzyme Strip 1		
Glycerol	≥30 - ≤60	56-81-5
Enzyme Strip 2		
Enzyme Surp 2		
Glycerol	≥30 - ≤60	56-81-5

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

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

Section 4. First aid measures

Description of necessary first aid measures

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 5/49

Eve 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 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. Continue to rinse for at least 10 minutes. If irritation persists,

get medical attention.

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.

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 - H12

: 01/02/2024

Date of issue/Date of revision

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.

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.

Enzyme Strip 1 Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists,

get medical attention.

Enzyme Strip 2 Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists,

Version:5

6/49

get medical attention.

: 17/02/2021

Date of previous issue

: RE Buffer Inhalation

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. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

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 Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If 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

Remove victim to fresh air and keep at rest in a Capture Solution

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.

Remove victim to fresh air and keep at rest in a HaloPlex Indexing Primer

A01 - H12 position comfortable for breathing. Get medical

attention if symptoms occur.

Hybridization Solution Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If 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.

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version: 5 7/49

Enrichment Control DNA Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

Enzyme Strip 1 Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

Enzyme Strip 2 Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

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. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ligation Solution Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Wash Solution 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. Get medical attention. 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 - H12

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Hybridization Solution Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 8/49

removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. 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.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Wash out mouth with water. If material has been

SSC Buffer

Enzyme Strip 1

Enzyme Strip 2

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 out mouth with water. 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 out mouth with water. 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 out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get

airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give

medical attention immediately. Maintain an open

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 out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. 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.

Wash out mouth with water. If material has been

: RE Buffer Ingestion

BSA Solution

DNA Ligase

Ligation Solution

Wash Solution

Capture Solution

: 01/02/2024

Date of issue/Date of revision

Date of previous issue

: 17/02/2021

Version:5

9/49

Primer 1

Primer 2

HaloPlex Indexing Primer A01 - H12

Hybridization Solution

Enrichment Control DNA

Enzyme Strip 1

Enzyme Strip 2

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

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 10/49

airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

RE Buffer SSC Buffer BSA Solution DNA Ligase Ligation Solution Wash Solution Capture Solution Primer 1 Primer 2

HaloPlex Indexing Primer A01 - H12

Hybridization Solution Enrichment Control DNA Enzyme Strip 1 Enzyme Strip 2

Inhalation

RE Buffer SSC Buffer BSA Solution DNA Ligase Ligation Solution Wash Solution Capture Solution Primer 1

Primer 2 HaloPlex Indexing Primer

A01 - H12 Hybridization Solution Enrichment Control DNA Enzyme Strip 1

Enzyme Strip 2

Skin contact

EE Buffer
SSC Buffer
BSA Solution
DNA Ligase
Ligation Solution
Wash Solution
Capture Solution
Primer 1
Primer 2

HaloPlex Indexing Primer

A01 - H12 Hybridization Solution Enrichment Control DNA Enzyme Strip 1

Enzyme Strip 2

EE Buffer
SSC Buffer
BSA Solution
DNA Ligase
Ligation Solution
Wash Solution
Capture Solution
Primer 1
Primer 2

HaloPlex Indexing Primer A01 - H12 No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation. Causes eye irritation.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Ingestion

Date of issue/Date of revision

: 01/02/2024

Date of previous issue

: 17/02/2021

Version : 5

11/49

Hybridization Solution **Enrichment Control DNA**

Enzyme Strip 1 Enzyme Strip 2 No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact

: RE Buffer No specific data. SSC Buffer No specific data. **BSA Solution** No specific data.

DNA Ligase Adverse symptoms may include the following:

> irritation watering redness

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 Primer No specific data.

A01 - H12

Hybridization Solution No specific data. **Enrichment Control DNA** No specific data.

Enzyme Strip 1 Adverse symptoms may include the following:

> irritation watering redness

Adverse symptoms may include the following: Enzyme Strip 2

> irritation watering redness

Inhalation

Skin contact

: 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 Primer No specific data.

A01 - H12

SSC Buffer

BSA Solution

DNA Ligase

Hybridization Solution Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations No specific data.

Enrichment Control DNA Enzyme Strip 1 Enzyme Strip 2 : RE Buffer

No specific data. No specific data. No specific data. No specific data. No specific data.

No specific data.

Ligation Solution No specific data. Adverse symptoms may include the following: Wash Solution

> reduced foetal weight increase in foetal deaths skeletal malformations No specific data.

Capture Solution Primer 1 No specific data. Primer 2 No specific data.

Date of issue/Date of revision : 01/02/2024 : 17/02/2021 Date of previous issue Version:5 12/49

Ingestion

HaloPlex Indexing Primer

A01 - H12

No specific data.

Hybridization Solution Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Enrichment Control DNA

Enzyme Strip 1

Enzyme Strip 2

No specific data.

Enzyme Strip 2

No specific data.

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 No specific data.

Capture Solution No specific data.
Primer 1 No specific data.
Primer 2 No specific data.
HaloPlex Indexing Primer No specific data.

A01 - H12

Hybridization Solution Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations No specific data.

Enrichment Control DNA No specific data.
Enzyme Strip 1 No specific data.
Enzyme Strip 2 No specific data.

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

Notes to physician : RE Buffer Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

SSC Buffer Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

BSA Solution Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

DNA Ligase Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Ligation Solution 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 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Primer 1 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Primer 2 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

HaloPlex Indexing Primer Treat symptomatically. Contact poison treatment

A01 - H12 specialist immediately if large quantities have been

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 13/49

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 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Enzyme Strip 1 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Treat symptomatically. Contact poison treatment Enzyme Strip 2

specialist immediately if large quantities have been

ingested or inhaled.

Specific treatments

: RE Buffer No specific treatment. SSC Buffer No specific treatment. **BSA Solution** No specific treatment. No specific treatment. **DNA Ligase** Ligation Solution No specific treatment. Wash Solution No specific treatment. Capture Solution No specific treatment. Primer 1 No specific treatment. Primer 2 No specific treatment. No specific treatment.

HaloPlex Indexing Primer

A01 - H12

Hybridization Solution No specific treatment. **Enrichment Control DNA** No specific treatment. Enzyme Strip 1 No specific treatment. Enzyme Strip 2 No specific treatment.

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.

No action shall be taken involving any personal risk **BSA Solution**

or without suitable training.

DNA Ligase No action shall be taken involving any personal risk

or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

No action shall be taken involving any personal risk Ligation Solution

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. No action shall be taken involving any personal risk

or without suitable training.

HaloPlex Indexing Primer

A01 - H12

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.

: 17/02/2021 Date of issue/Date of revision : 01/02/2024 Date of previous issue Version:5

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.

Enzyme Strip 1 No action shall be taken involving any personal risk

or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

No action shall be taken involving any personal risk Enzyme Strip 2

or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media

: 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 - H12

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.

Use an extinguishing agent suitable for the Enzyme Strip 1

surrounding fire.

Use an extinguishing agent suitable for the Enzyme Strip 2

surrounding fire.

Unsuitable extinguishing media

: RE Buffer None known. SSC Buffer None known. **BSA Solution** None known. **DNA** Ligase None known. **Ligation Solution** None known. Wash Solution None known. Capture Solution None known. Primer 1 None known. Primer 2 None known. None known.

HaloPlex Indexing Primer

A01 - H12

Hybridization Solution None known. **Enrichment Control DNA** None known. Enzyme Strip 1 None known. Enzyme Strip 2 None known.

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version:5 15/49

Section 5. Firefighting measures

Specific hazards arising from the chemical

: 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 - H12

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.

Enzyme Strip 1 In a fire or if heated, a pressure increase will occur

and the container may burst.

Enzyme Strip 2 In a fire or if heated, a pressure increase will occur

and the container may burst.

Hazardous thermal decomposition products

RE Buffer No specific data. SSC Buffer No specific data.

BSA Solution 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 No specific data.

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 No specific data. No specific data.

HaloPlex Indexing Primer

A01 - H12

Primer 1

Primer 2

Hybridization Solution Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides

No specific data.

halogenated compounds metal oxide/oxides

Enrichment Control DNA No specific data.

Enzyme Strip 1 Decomposition products may include the following

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 16/49

Section 5. Firefighting measures

materials:

carbon dioxide carbon monoxide

Enzyme Strip 2

Decomposition products may include the following

materials: carbon dioxide carbon monoxide

Special protective actions for fire-fighters

: RE Buffer

Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

SSC Buffer Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

BSA 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.

DNA Ligase 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.

Ligation 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.

Wash 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.

Capture 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.

Primer 1 Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Primer 2 Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

HaloPlex Indexing Primer

A01 - H12

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.

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.

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.

Enzyme Strip 1 Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

without suitable training.

Enzyme Strip 2 Promptly isolate the scene by removing all persons

from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 17/49

Section 5. Firefighting measures

Special protective equipment for fire-fighters

without suitable training.

: RE Buffer Fire-fighters should wea

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

pressure mode.

SSC Buffer Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

BSA Solution Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

DNA Ligase Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Ligation Solution Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Wash Solution Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Capture Solution Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Primer 1 Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Primer 2 Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

HaloPlex Indexing Primer

A01 - H12

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

pressure mode.

Hybridization Solution Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Enrichment Control DNA Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Enzyme Strip 1 Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Enzyme Strip 2 Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 18/49

HaloPlex ILM Pre-Pack - 96 Reactions, Part Number 5190-8636

Section 5. Firefighting measures

Hazchem code

: RE Buffer Not available. SSC Buffer Not available. Not available. **BSA Solution** Not available. **DNA Ligase Ligation Solution** Not available. Wash Solution Not available. Capture Solution Not available. Primer 1 Not available. Primer 2 Not available. HaloPlex Indexing Primer Not available. A01 - H12

Hybridization Solution

Enrichment Control DNA

Enzyme Strip 1

Enzyme Strip 2

Not available.

Not available.

Not available.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: 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.

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.

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.

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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment.

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.

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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment.

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

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 19/49

through spilt material. Put on appropriate personal

protective equipment.

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.

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.

HaloPlex Indexing Primer

A01 - H12

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.

No action shall be taken involving any personal risk Hybridization Solution

or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment.

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.

No action shall be taken involving any personal risk Enzyme Strip 1

or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate

respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Enzyme Strip 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

If specialised clothing is required to deal with the

appropriate personal protective equipment.

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the

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

BSA Solution If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on

> suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the

For emergency responders : RE Buffer

SSC Buffer

DNA Ligase

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version:5 20/49

Ligation Solution

Wash Solution

Capture Solution

Primer 1

Primer 2

HaloPlex Indexing Primer A01 - H12

Hybridization Solution

Enrichment Control DNA

Enzyme Strip 1

Enzyme Strip 2

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

suitable and unsuitable materials. See also the information in "For non-emergency personnel".

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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

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

If specialised clothing is required to deal with the

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

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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

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

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

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,

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 21/49

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 relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

Capture 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).

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 - H12

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).

Enzyme Strip 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).

Enzyme Strip 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).

Methods and material for containment and cleaning up

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

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 22/49

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. 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 - H12

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.

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 23/49

Enzyme Strip 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.

Enzyme Strip 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.

Section 7. Handling and storage

Precautions for safe handling

Put on appropriate personal protective equipment

(see Section 8).

SSC Buffer Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment **BSA Solution**

(see Section 8).

Put on appropriate personal protective equipment **DNA Ligase**

(see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not

reuse container.

Ligation Solution Put on appropriate personal protective equipment

(see Section 8). Wash Solution Put on appropriate personal protective equipment

(see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. 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.

Put on appropriate personal protective equipment (see Section 8).

Primer 1 Put on appropriate personal protective equipment

(see Section 8).

Primer 2 Put on appropriate personal protective equipment

(see Section 8).

HaloPlex Indexing Primer Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. 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

: RE Buffer **Protective measures**

Date of issue/Date of revision

: 01/02/2024 Date of previous issue

Capture Solution

A01 - H12

Hybridization Solution

: 17/02/2021

Version:5 24/49

Enrichment Control DNA

Enzyme Strip 1

from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not

reuse container.

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

: RE Buffer

Advice on general

occupational hygiene

Enzyme Strip 2

SSC Buffer

BSA Solution

DNA Ligase

Ligation Solution

Wash Solution

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

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

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

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment

before entering eating areas. See also Section 8 for

additional information on hygiene measures. Eating, drinking and smoking should be prohibited in

areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for

additional information on hygiene measures.

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

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version:5 25/49

Capture Solution

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

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

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for

additional information on hygiene measures.

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

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for

additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment

before entering eating areas. See also Section 8 for additional information on hygiene measures.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for

additional information on hygiene measures.
Eating, drinking and smoking should be prohibited in

areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for

additional information on hygiene measures.

Primer 1

Primer 2

HaloPlex Indexing Primer A01 - H12

Hybridization Solution

Enrichment Control DNA

Enzyme Strip 1

Enzyme Strip 2

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 26/49

Conditions for safe storage, : RE Buffer including any incompatibilities

SSC Buffer

BSA Solution

DNA Ligase

Ligation Solution

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

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version: 5 27/49

Capture Solution

Primer 1

Primer 2

HaloPlex Indexing Primer A01 - H12

Hybridization Solution

Enrichment Control DNA

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

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 28/49

Enzyme Strip 1

Enzyme Strip 2

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

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Exposure limits
Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m³ 8 hours.
Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m³ 8 hours.
Safe Work Australia (Australia, 10/2022). Absorbed through skin. TWA: 18 mg/m³ 8 hours. TWA: 10 ppm 8 hours.
Safe Work Australia (Australia, 10/2022). Absorbed through skin. TWA: 18 mg/m³ 8 hours. TWA: 10 ppm 8 hours.
Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m³ 8 hours.
Safe Work Australia (Australia, 10/2022).

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 29/49

HaloPlex ILM Pre-Pack - 96 Reactions, Part Number 5190-8636

Section 8. Exposure controls and personal protection

TWA: 10 mg/m³ 8 hours.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls

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

Environmental exposure controls

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

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

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

Skin protection

Hand protection

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

Body protection

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

Other skin protection

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

Respiratory protection

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

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state

: RÉ Buffer Liquid. SSC Buffer Liquid.

BSA Solution Liquid. [Clear.]

DNA Ligase Liquid.
Ligation Solution Liquid.
Wash Solution Liquid.
Capture Solution Liquid.
Primer 1 Liquid.
Primer 2 Liquid.

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 30/49

	HaloPlex Indexing Primer A01 - H12	Liquid.
	Hybridization Solution	Liquid.
	Enrichment Control DNA	Liquid.
	Enzyme Strip 1	Liquid.
	Enzyme Strip 2	Liquid.
Colour	: RE Buffer	Not available.
Colod .	SSC Buffer	Not available.
	BSA Solution	Colourless.
	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 Primer	Not available.
	A01 - H12	
	Hybridization Solution	Not available.
	Enrichment Control DNA	Not available.
	Enzyme Strip 1	Not available.
	Enzyme Strip 2	Not available.
Odour	: RE Buffer	Not available.
	SSC Buffer	Not available.
	BSA Solution	Odourless.
	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 Primer A01 - H12	Not available.
	Hybridization Solution	Not available.
	Enrichment Control DNA	Not available.
	Enzyme Strip 1	Not available.
	Enzyme Strip 2	Not available.
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 Primer 2	Not available. Not available.
	HaloPlex Indexing Primer	Not available.
	A01 - H12	Not available.
	Hybridization Solution	Not available.
	Enrichment Control DNA	Not available.
	Enzyme Strip 1	Not available.
	Enzyme Strip 2	Not available.
pH	: RE Buffer	7.9
	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 Primer	Not available.
Date of issue/Date of revision	: 01/02/2024	issue : 17/02/

Date of issue/Date of revision : 01/02/2024 : 17/02/2021 Version:5 31/49 Date of previous issue

A01 - H12

Hybridization Solution 7.5

Enrichment Control DNA Not available.

Enzyme Strip 1 7.4 Enzyme Strip 2 7.4

Melting point/freezing point

Boiling point, initial boiling point, and boiling range

RE Buffer 0°C (32°F) SSC Buffer 0°C (32°F) **BSA Solution** 20°C (68°F) **DNA Ligase** Not available. 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 Primer 0°C (32°F)

A01 - H12

Hybridization Solution Not available. **Enrichment Control DNA** 0°C (32°F) Enzyme Strip 1 Not available. Not available.

Enzyme Strip 2

: RE Buffer 100°C (212°F) SSC Buffer 100°C (212°F) **BSA Solution** 182°C (359.6°F) **DNA Ligase** Not available. 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 Primer

A01 - H12

Hybridization Solution Not available. **Enrichment Control DNA** 100°C (212°F) Enzyme Strip 1 Not available. Enzyme Strip 2 Not available. RE Buffer Not available.

Flash point

SSC Buffer Not available.

BSA Solution Closed cup: 160°C (320°F)

100°C (212°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. Not available. HaloPlex Indexing Primer

A01 - H12

Not available. **Hybridization Solution** Not available. **Enrichment Control DNA** Not available. Enzyme Strip 1 Enzyme Strip 2 Not available.

		Closed	cup	Open cup		
Ingredient name	°C	°F	Method	°C	°F	Method
<mark>⊅</mark> NA Ligase						
Glycerol	-	-	-	177	350.6	-
Wash Solution						
Formamide	150	302	-	152	305.6	DIN EN

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version:5 32/49

ai pic	porti	co ana	Juicty		
					ISO 2592
150	302	-	152	305.6	DIN EN ISO 2592
-	-	-	177	350.6	-
-	-	-	177	350.6	-
1	Not av	/ailable.	1	1.	
	Not available.				
		150 302 Not av	150 302 Not available.	177 Not available.	150 302 - 152 305.6 177 350.6 Not available.

Evaporation rate

Primer 2 Not available. HaloPlex Indexing Primer Not available.

A01 - H12

Hybridization Solution Not available. **Enrichment Control DNA** Not available. Enzyme Strip 1 Not available. Enzyme Strip 2 Not available. : RE Buffer

Flammability

Not applicable. SSC Buffer Not applicable. **BSA Solution** Not applicable. **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 Primer Not applicable.

A01 - H12

Hybridization Solution Not applicable. **Enrichment Control DNA** Not applicable. Enzyme Strip 1 Not applicable. Enzyme Strip 2 Not applicable. : RE Buffer

Lower and upper explosion limit/flammability limit

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 Primer Not available.

A01 - H12

Hybridization Solution Not available. **Enrichment Control DNA** Not available. Enzyme Strip 1 Not available.

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 33/49 Version:5

Vapour pressure

Enzyme Strip 2 Not available.

SA Solution <0.13 kPa (<1 mm Hg)
Enzyme Strip 1 <0.13 kPa (<1 mm Hg)

Enzyme Strip 1 <0.13 kPa (<1 mm Hg) Enzyme Strip 2 <0.13 kPa (<1 mm Hg)

	Vapour Pressure at 20°C		Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
RE Buffer						
water	17.5	2.3	-	92.258	12.3	-
SSC Buffer						
water	17.5	2.3	-	92.258	12.3	-
DNA Ligase						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Ligation Solution						
water	17.5	2.3	-	92.258	12.3	-
Wash Solution						
water	17.5	2.3	-	92.258	12.3	-
Formamide	0.045	0.006	-	-	-	-
Capture Solution						
water	17.5	2.3	-	92.258	12.3	-
Primer 1						
water	17.5	2.3	-	92.258	12.3	-
Primer 2						
water	17.5	2.3	-	92.258	12.3	-
HaloPlex Indexing Primer A01 - H12						
water	17.5	2.3	-	92.258	12.3	-
Hybridization Solution						
water	17.5	2.3	-	92.258	12.3	-

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 34/49

Characteristics				T		Т		
	Formamide	0.045	0.006	-	-	-	-	
	Enrichment							
	Control DNA							
	water	17.5	2.3	-	92.258	12.3	-	
Relative vapour density :	RE Buffer		Not avail					
	SSC Buffer		Not avail					
	BSA Solution		3.1 [Air = Not avail					
	DNA Ligase Ligation Solution		Not avail					
	Wash Solution		Not avail					
	Capture Solution		Not avail					
	Primer 1		Not avail	lable.				
	Primer 2		Not avail					
	HaloPlex Indexing P	rimer	Not avai	lable.				
	A01 - H12	_	NI.4	l = l= l =				
	Hybridization Solutio Enrichment Control		Not avail					
	Enzyme Strip 1	DINA	Not avail					
	Enzyme Strip 2		Not avail					
Relative density :	RE Buffer		Not avail					
	SSC Buffer		Not avail					
	BSA Solution		1.262	•				
	DNA Ligase		Not avai	lable.				
	Ligation Solution		Not avail					
	Wash Solution		Not avail					
	Capture Solution		Not avail					
	Primer 1 Primer 2		Not avail					
	HaloPlex Indexing P	rimer	Not avail					
	A01 - H12							
	Hybridization Solutio		Not avai					
	Enrichment Control I	DNA	Not avail					
	Enzyme Strip 1		Not avail					
	Enzyme Strip 2		Not avai					
Solubility(ies) :	Media			Result				
	RE Buffer							
	water			Soluble				
	SSC Buffer							
	water BSA Solution			Soluble				
	water			Soluble				
	DNA Ligase			Colubie				
	water			Soluble				
	Ligation Solution							
	water			Soluble				
	Wash Solution			0 1011				
	water			Soluble				
	Capture Solution water			Soluble				
	Primer 1			Colubie				
	water			Soluble				
	Primer 2							
	water			Soluble				
	HaloPlex Indexing	Primer A	A01 - H12	0 - 11				
	water Hybridization Solut	tion		Soluble				
	water	LIUII		Soluble				
				20.00				
Date of issue/Date of revision : 01	1/02/2024 Date of	previous is	ssue	: 17/02/2021		Version	: 5	35/49

Characteristics							
	Enrichment Control DNA						
	water	\$	Soluble				
	Enzyme Strip 1						
	water	5	Soluble				
	Enzyme Strip 2						
	water	8	Soluble				
Partition coefficient: n-	E Buffer	Not applicab	le.				
octanol/water	SSC Buffer	Not applicab					
	BSA Solution	Not applicab					
	DNA Ligase	Not applicab	le.				
	Ligation Solution	Not applicab	le.				
	Wash Solution	Not applicab	le.				
	Capture Solution	Not applicab					
	Primer 1	Not applicab					
	Primer 2	Not applicab					
	HaloPlex Indexing Primer	Not applicab	le.				
	A01 - H12						
	Hybridization Solution	Not applicab					
	Enrichment Control DNA	Not applicab					
	Enzyme Strip 1 Enzyme Strip 2	Not applicab					
		Not applicab					
Auto-ignition temperature	SA Solution	370°C (698°					
	Enzyme Strip 1	370°C (698°					
	Enzyme Strip 2	370°C (698°	<u>',</u>	1 1			
	Ingredient name	°C	°F	Method			
	D NA Ligase						
	Glycerol	370	698	_			
	C.youru.						
	Wash Solution						
	Formamide	>500	>932	ASTM D 2155-66			
	Hybridization Solution						
	Formamide	>500	>932	ASTM D 2155-66			
Decomposition temperature	RE Buffer	Not available	€.				
	SSC Buffer	Not available	Э.				
	BSA Solution	Not available					
	DNA Ligase	Not available					
	Ligation Solution	Not available					
	Wash Solution	Not available					
	Capture Solution Primer 1	Not available Not available					
	Primer 2	Not available					
	HaloPlex Indexing Primer	Not available					
	A01 - H12	riot a ranabit					
	Hybridization Solution	Not available	Э.				
	Enrichment Control DNA	Not available	€.				
	Enzyme Strip 1	Not available					
	Enzyme Strip 2	Not available	Э.				
Viscosity	RE Buffer	Not available	Э.				
	SSC Buffer	Not available					
	BSA Solution	Not available					
	DNA Ligase	Not available					
	Ligation Solution	Not available					
	Wash Solution	Not available					
	Capture Solution	Not available	€.				

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 36/49

Section 9. Physical and chemical properties and safety characteristics

Primer 1 Not available. Primer 2 Not available.

HaloPlex Indexing Primer Not available.

A01 - H12

Hybridization Solution Not available. **Enrichment Control DNA** Not available. Enzyme Strip 1 Not available. Enzyme Strip 2 Not available.

Particle characteristics Median particle size

RE Buffer Not applicable. SSC Buffer Not applicable. **BSA Solution** Not applicable. **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 Primer Not applicable.

A01 - H12

Primer 1

Hybridization Solution Not applicable. Not applicable. **Enrichment Control DNA** Enzyme Strip 1 Not applicable. Enzyme Strip 2 Not applicable.

Section 10. Stability and reactivity

Reactivity RE Buffer No specific test data related to reactivity available for

this product or its ingredients.

No specific test data related to reactivity available for SSC Buffer

this product or its ingredients.

BSA Solution No specific test data related to reactivity available for

this product or its ingredients.

No specific test data related to reactivity available for **DNA Ligase**

this product or its ingredients.

Ligation Solution No specific test data related to reactivity available for

this product or its ingredients.

Wash Solution No specific test data related to reactivity available for

this product or its ingredients.

Capture Solution No specific test data related to reactivity available for this product or its ingredients.

No specific test data related to reactivity available for

this product or its ingredients.

No specific test data related to reactivity available for

Primer 2 this product or its ingredients.

No specific test data related to reactivity available for

HaloPlex Indexing Primer

this product or its ingredients. A01 - H12

Hybridization Solution No specific test data related to reactivity available for

this product or its ingredients.

Enrichment Control DNA No specific test data related to reactivity available for

this product or its ingredients.

Enzyme Strip 1 No specific test data related to reactivity available for

this product or its ingredients.

Enzyme Strip 2 No specific test data related to reactivity available for

this product or its ingredients.

Date of issue/Date of revision : 01/02/2024 : 17/02/2021 Version:5 37/49 Date of previous issue

Section 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 Primer The product is stable.

A01 - H12

SSC Buffer

Hybridization Solution **Enrichment Control DNA** Enzyme Strip 1 Enzyme Strip 2

The product is stable. The product is stable. The product is stable. The product is stable.

Possibility of hazardous reactions

: RE Buffer Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use, **BSA Solution**

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.

Under normal conditions of storage and use, Capture Solution

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 Primer

A01 - H12

Hybridization Solution

Enzyme Strip 1

Enzyme Strip 2

Under normal conditions of storage and use.

hazardous reactions will not occur.

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.

Under normal conditions of storage and use,

hazardous reactions will not occur.

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 Primer No specific data.

A01 - H12

Hybridization Solution No specific data. No specific data. **Enrichment Control DNA** Enzyme Strip 1 No specific data. Enzyme Strip 2 No specific data.

Date of issue/Date of revision 38/49 : 01/02/2024 Date of previous issue : 17/02/2021 Version:5

Section 10. Stability and reactivity

Incompatible materials

RE Buffer
SSC Buffer
BSA Solution
DNA Ligase
Ligation Solution
Wash Solution
Capture Solution
Primer 1
Primer 2

HaloPlex Indexing Primer

A01 - H12

Hybridization Solution Enrichment Control DNA Enzyme Strip 1 Enzyme Strip 2 May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials.

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 Primer

A01 - H12

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.

Enrichment Control DNA Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Enzyme Strip 1 Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Enzyme Strip 2 Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 39/49

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
BSA Solution Glycerol	LD50 Oral	Rat	12600 mg/kg	-
DNA Ligase Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Wash Solution Formamide	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat - Male Rabbit Rat	>21 mg/l 17 g/kg 5570 mg/kg	4 hours - -
Hybridization Solution Formamide	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat - Male Rabbit Rat	>21 mg/l 17 g/kg 5570 mg/kg	4 hours -
Enzyme Strip 1 Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Enzyme Strip 2 Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
B SA Solution					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
DNA Ligase					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Enzyme Strip 1					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Francisco Cário O					
Enzyme Strip 2 Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 40/49

Conclusion/Summary

Teratogenicity

: Not available.

Conclusion/Summary : Not available. Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Wash Solution Formamide	Category 2	oral	blood
Hybridization Solution Formamide	Category 2	oral	blood

Aspiration hazard

Not available.

Information on likely routes of exposure

: RE Buffer Not available. SSC Buffer Not available. **BSA Solution** Not available.

DNA Ligase Routes of entry anticipated: Oral, Dermal, Inhalation,

Ligation Solution Not available.

Wash Solution Routes of entry anticipated: Oral, Dermal, Inhalation,

Eyes.

Capture Solution Not available. Primer 1 Not available. Primer 2 Not available. HaloPlex Indexing Primer Not available.

A01 - H12

Hybridization Solution Routes of entry anticipated: Oral, Dermal, Inhalation,

Eves.

Enrichment Control DNA Not available.

Enzyme Strip 1 Routes of entry anticipated: Oral, Dermal, Inhalation,

Enzyme Strip 2 Routes of entry anticipated: Oral, Dermal, Inhalation,

Eyes.

Potential acute health effects

Eye contact

: 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.

Causes eye irritation. **DNA Ligase**

Ligation Solution No known significant effects or critical hazards. No known significant effects or critical hazards. Wash Solution No known significant effects or critical hazards. Capture Solution Primer 1 No known significant effects or critical hazards. Primer 2 No known significant effects or critical hazards. No known significant effects or critical hazards.

HaloPlex Indexing Primer

A01 - H12

Hybridization Solution Enrichment Control DNA

Enzyme Strip 1 Enzyme Strip 2 No known significant effects or critical hazards. No known significant effects or critical hazards.

Causes eye irritation. Causes eye irritation.

Date of issue/Date of revision 41/49 : 01/02/2024 Date of previous issue : 17/02/2021 Version:5

Inhalation

: RE Buffer SSC Buffer **BSA Solution DNA Ligase Ligation Solution** Wash Solution Capture Solution Primer 1 Primer 2

HaloPlex Indexing Primer

A01 - H12

Hybridization Solution **Enrichment Control DNA** Enzyme Strip 1

Enzyme Strip 2

Skin contact

RE Buffer SSC Buffer **BSA Solution DNA Ligase** Ligation Solution Wash Solution Capture Solution Primer 1 Primer 2 HaloPlex Indexing Primer

A01 - H12

Hybridization Solution Enrichment Control DNA Enzyme Strip 1 Enzyme Strip 2

: RE Buffer Ingestion SSC Buffer **BSA Solution**

DNA Ligase Ligation Solution Wash Solution Capture Solution Primer 1

Primer 2 HaloPlex Indexing Primer

A01 - H12

Hybridization Solution Enrichment Control DNA Enzyme Strip 1 Enzyme Strip 2

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

: RE Buffer No specific data. **Eye contact**

SSC Buffer No specific data. **BSA Solution** No specific data.

Adverse symptoms may include the following: **DNA Ligase**

irritation watering redness

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 Primer No specific data.

A01 - H12

Hybridization Solution No specific data.

: 01/02/2024 : 17/02/2021 Date of issue/Date of revision Date of previous issue Version:5 42/49

Enrichment Control DNA No specific data.

Enzyme Strip 1 Adverse symptoms may include the following:

irritation watering redness

Enzyme Strip 2 Adverse symptoms may include the following:

irritation watering redness

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 Primer No specific data.

A01 - H12

Skin contact

Ingestion

Hybridization Solution Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Enrichment Control DNA

Enzyme Strip 1

Enzyme Strip 2

No specific data.

No specific data.

No specific data.

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 Primer No specific data.

A01 - H12

Hybridization Solution Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Enrichment Control DNA
Enzyme Strip 1
Enzyme Strip 2

No specific data.

SSC Buffer

BSA Solution

DNA Ligase

Ligation Solution

No specific data.

Wash Solution Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations No specific data.

Capture Solution No specific data.

Primer 1 No specific data.

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 43/49

Primer 2

HaloPlex Indexing Primer

Hybridization Solution

A01 - H12

No specific data.

Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Enrichment Control DNA

Enzyme Strip 1 Enzyme Strip 2 No specific data. No specific data. No specific data.

No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Long term exposure

Carcinogenicity

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : RE Buffer

SSC Buffer **BSA Solution DNA** Ligase Ligation Solution Wash Solution

No known significant effects or critical hazards. No known significant effects or critical hazards. May cause damage to organs through prolonged or repeated exposure.

No known significant effects or critical hazards.

Capture Solution Primer 1 Primer 2

HaloPlex Indexing Primer

A01 - H12

Hybridization Solution

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Enrichment Control DNA

Enzyme Strip 1 Enzyme Strip 2

: RE Buffer

SSC Buffer **BSA Solution DNA Ligase Ligation Solution** Wash Solution

Capture Solution

Primer 1 Primer 2

HaloPlex Indexing Primer

A01 - H12

Hybridization Solution

Enrichment Control DNA

Enzyme Strip 1 Enzyme Strip 2 May cause damage to organs through prolonged or

repeated exposure.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards. No known significant effects or critical hazards.

Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version:5 44/49

Mutagenicity

EE Buffer
SSC Buffer
BSA Solution
DNA Ligase
Ligation Solution
Wash Solution
Capture Solution
Primer 1
Primer 2

HaloPlex Indexing Primer

A01 - H12

Hybridization Solution Enrichment Control DNA

Enzyme Strip 1 Enzyme Strip 2

Reproductive toxicity

RE Buffer SSC Buffer BSA Solution DNA Ligase Ligation Solution Wash Solution Capture Solution

Primer 1 Primer 2

HaloPlex Indexing Primer

A01 - H12

Hybridization Solution Enrichment Control DNA

Enzyme Strip 1 Enzyme Strip 2 No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. May damage fertility or the unborn child. No known significant effects or critical hazards. No known significant effects or critical hazards.

May damage fertility or the unborn child. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
B SA Solution					
Glycerol	12600	N/A	N/A	N/A	N/A
DNA Ligase Glycerol	12600	N/A	N/A	N/A	N/A
Wash Solution					
Formamide	5570	17000	N/A	N/A	N/A
Hybridization Solution Formamide	5570	17000	N/A	N/A	N/A
Enzyme Strip 1 Glycerol	12600	N/A	N/A	N/A	N/A
Enzyme Strip 2					
Glycerol	12600	N/A	N/A	N/A	N/A

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 45/49

Toxicity

Product/ingredient name	Result	Species	Exposure
B SA Solution			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
DNA Ligase			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Wash Solution			
Formamide	Acute EC50 >500 mg/l Fresh water	Algae	72 hours
	Acute EC50 >500 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 6569 mg/l Fresh water	Fish	96 hours
	Acute NOEC 4640 mg/l Fresh water	Algae	72 hours
	Acute NOEC 4640 mg/l Fresh water	Fish	96 hours
Hybridization Solution			
Formamide	Acute EC50 >500 mg/l Fresh water	Algae	72 hours
	Acute EC50 >500 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 6569 mg/l Fresh water	Fish	96 hours
	Acute NOEC 4640 mg/l Fresh water	Algae	72 hours
	Acute NOEC 4640 mg/l Fresh water	Fish	96 hours
Enzyme Strip 1			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Enzyme Strip 2			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
BSA Solution Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
DNA Ligase Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
Wash Solution Formamide	OECD 301A Ready Biodegradability - DOC Die-Away Test	99 % - Readily - 28 days	-	-
Hybridization Solution Formamide	OECD 301A Ready Biodegradability - DOC Die-Away Test	99 % - Readily - 28 days	-	-
Enzyme Strip 1 Glycerol	301D Ready Biodegradability - Closed Bottle	93 % - 30 days	-	-

HaloPlex ILM Pre-Pack - 96 Reactions, Part Number 5190-8636

Section 12. Ecological information

00001011 121 20010	gioai iiiioiii	iation			
Enzyme Strip 2 Glycerol	Test 301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days		-	-
Product/ingredient name	Aquatic half-life	1	Photolysi	s	Biodegradability
Wash Solution Formamide	-		-		Readily
Hybridization Solution Formamide	-		-		Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
SA Solution Glycerol	-1.76	-	Low
DNA Ligase Glycerol	-1.76	-	Low
Wash Solution Formamide	-0.82	-	Low
Hybridization Solution Formamide	-0.82	-	Low
Enzyme Strip 1 Glycerol	-1.76	-	Low
Enzyme Strip 2 Glycerol	-1.76	-	Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

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

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 47/49

Section 14. Transport information

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

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

New Zealand : Not determined.

United States : All components are active or exempted.

Section 16. Any other relevant information

History

Date of issue/Date of : 01/02/2024

revision

Date of previous issue : 17/02/2021

Version : 5

Key to abbreviations : ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 48/49

Section 16. Any other relevant information

Procedure used to derive the classification

Classification	Justification
DNA Ligase SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method
Wash Solution CARCINOGENICITY - Category 2 REPRODUCTIVE TOXICITY - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	Calculation method Calculation method Calculation method
Hybridization Solution CARCINOGENICITY - Category 2 REPRODUCTIVE TOXICITY - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	Calculation method Calculation method Calculation method
Enzyme Strip 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method
Enzyme Strip 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B	Calculation method

[▼] Indicates information that has changed from previously issued version.

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

Date of issue/Date of revision : 01/02/2024 Date of previous issue : 17/02/2021 Version : 5 49/49