

SAFETY DATA SHEET

SureSelect XT Low Input Reagent Kit with indexes 97-192, 96 reactions, Part Number G9508 A-M

Section 1. Identification

1.1 Product identifier

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|--------------------------------|---|
| Product name | : SureSelect XT Low Input Reagent Kit with indexes 97-192, 96 reactions, Part Number G9508 A-M |
| Part no. (chemical kit) | : G9508 A-M |
| Part no. | : <u>SureSelect XT HS and XT Low Input Library Prep Kit for ILM (Pre PCR), 96 Rxn</u> <u>5500-0140</u> End Repair-A Tailing Enzyme Mix 5190-6435 End Repair-A Tailing Buffer 5190-6436 T4 DNA Ligase 5190-6437 Ligation Buffer 5190-6438 Adaptor Oligo Mix 5190-6439 Forward Primer 5190-6440 <u>SureSelect XT HS and XT Low Input Library Prep Kit for ILM (Pre PCR), 96 Rxn / SureSelect XT HS and XT Low Input Target Enrichment Kit, ILM Hyb Module, Box 2 (Post PCR), 96 Rxn</u> <u>5500-0140 / 5190-9686</u> 100 mM dNTP Mix (25 mM each dNTP) 200418-51 Herculase II Fusion DNA Polymerase 5600-3761 5X Herculase II Reaction Buffer 600675-52 <u>SureSelect XT HS and XT Low Input Target Enrichment Kit, ILM Hyb Module, Box 1 (Post PCR), 96 Rxn</u> <u>5190-9734</u> SureSelect Binding Buffer 5190-4408 SureSelect Wash Buffer 1 5190-4409 SureSelect Wash Buffer 2 5190-4409 <u>SureSelect XT HS and XT Low Input Target Enrichment Kit, ILM Hyb Module, Box 2 (Post PCR), 96 Rxn</u> <u>5190-9686</u> SureSelect XT HS and XT Low Input Blocker Mix 5190-9534 SureSelect Fast Hybridization Buffer 5190-7330 SureSelect RNase Block 5972-3700 SureSelect Post-Capture Primer Mix 5190-9732 <u>SureSelect XT Low Input Index Primers 97-192 for ILM (Pre PCR)</u> <u>5190-6445</u> SureSelect XT Low Input Index Bulk Set 2 A01-H12 5600-3901 through 5600-3996 |
| Validation date | : 12/26/2018 |

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

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| Material uses | : Analytical reagent. For Research Use Only. Not for use in diagnostic procedures. |
| | End Repair-A Tailing Enzyme Mix 0.512 ml (96 reactions) |
| | End Repair-A Tailing Buffer 2.048 ml (96 reactions) |
| | T4 DNA Ligase 0.256 ml (96 reactions) |
| | Ligation Buffer 2.944 ml (96 reactions) |
| | Adaptor Oligo Mix 0.64 ml (96 reactions) |
| | Forward Primer 0.256 ml (96 reactions) |
| | 100 mM dNTP Mix (25 mM each dNTP) 0.1 ml |
| | Herculase II Fusion DNA Polymerase 0.128 ml (96 reactions) |
| | 5X Herculase II Reaction Buffer 1.5 ml |
| | SureSelect Binding Buffer 93 ml |

Section 1. Identification

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| SureSelect Wash Buffer 1 | 48 ml |
| SureSelect Wash Buffer 2 | 144 ml |
| SureSelect XT HS and XT Low Input Blocker Mix | 0.64 ml (96 reactions) |
| SureSelect Fast Hybridization Buffer | 0.77 ml |
| SureSelect RNase Block | 0.08 ml |
| SureSelect Post-Capture Primer Mix | 0.128 ml (96 reactions) |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | 96 x 0.01 ml (96 reactions) |

[1.3 Details of the supplier of the safety data sheet](#)

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

[1.4 Emergency telephone number](#)

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

Section 2. Hazards identification

[2.1 Classification of the substance or mixture](#)

| | | |
|------------------------|---|--|
| OSHA/HCS status | : <input checked="" type="checkbox"/> End Repair-A Tailing Enzyme Mix | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| | : <input type="checkbox"/> End Repair-A Tailing Buffer | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |
| | : <input type="checkbox"/> T4 DNA Ligase | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| | : <input type="checkbox"/> Ligation Buffer | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| | : <input type="checkbox"/> Adaptor Oligo Mix | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |
| | : <input type="checkbox"/> Forward Primer | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |
| | : <input type="checkbox"/> 100 mM dNTP Mix (25 mM each dNTP) | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |
| | : <input type="checkbox"/> Herculase II Fusion DNA Polymerase | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| | : <input type="checkbox"/> 5X Herculase II Reaction Buffer | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR |

Section 2. Hazards identification

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| | 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |
| SureSelect Binding Buffer | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |
| SureSelect Wash Buffer 1 | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |
| SureSelect Wash Buffer 2 | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |
| SureSelect XT HS and XT Low Input Blocker Mix | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |
| SureSelect Fast Hybridization Buffer | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |
| SureSelect RNase Block | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| SureSelect Post-Capture Primer Mix | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. |

Classification of the substance or mixture

End Repair-A Tailing Enzyme

Mix

H320 EYE IRRITATION - Category 2B

T4 DNA Ligase

H320

EYE IRRITATION - Category 2B

Ligation Buffer

H320

EYE IRRITATION - Category 2B

Section 2. Hazards identification

Hazard pictograms : Ligation Buffer



Signal word

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| End Repair-A Tailing Enzyme Mix | Warning |
| End Repair-A Tailing Buffer | No signal word. |
| T4 DNA Ligase | Warning |
| Ligation Buffer | Warning |
| Adaptor Oligo Mix | No signal word. |
| Forward Primer | No signal word. |
| 100 mM dNTP Mix (25 mM each dNTP) | No signal word. |
| Herculase II Fusion DNA Polymerase | Warning |
| 5X Herculase II Reaction Buffer | No signal word. |
| SureSelect Binding Buffer | No signal word. |
| SureSelect Wash Buffer 1 | No signal word. |
| SureSelect Wash Buffer 2 | No signal word. |
| SureSelect XT HS and XT Low Input Blocker Mix | No signal word. |
| SureSelect Fast Hybridization Buffer | No signal word. |
| SureSelect RNase Block | Warning |
| SureSelect Post-Capture Primer Mix | No signal word. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No signal word. |

Hazard statements

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|--|---|
| End Repair-A Tailing Enzyme Mix | H320 - Causes eye irritation. |
| End Repair-A Tailing Buffer | No known significant effects or critical hazards. |
| T4 DNA Ligase | H320 - Causes eye irritation. |
| Ligation Buffer | H320 - Causes eye irritation. H335 - May cause respiratory irritation. |
| Adaptor Oligo Mix | No known significant effects or critical hazards. |
| Forward Primer | No known significant effects or critical hazards. |
| 100 mM dNTP Mix (25 mM each dNTP) | No known significant effects or critical hazards. |
| Herculase II Fusion DNA Polymerase | H320 - Causes eye irritation. |
| 5X Herculase II Reaction Buffer | No known significant effects or critical hazards. |
| SureSelect Binding Buffer | No known significant effects or critical hazards. |
| SureSelect Wash Buffer 1 | No known significant effects or critical hazards. |
| SureSelect Wash Buffer 2 | No known significant effects or critical hazards. |
| SureSelect XT HS and XT Low Input Blocker Mix | No known significant effects or critical hazards. |
| SureSelect Fast Hybridization Buffer | No known significant effects or critical hazards. |
| SureSelect RNase Block | H320 - Causes eye irritation. |
| SureSelect Post-Capture Primer Mix | No known significant effects or critical hazards. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No known significant effects or critical hazards. |

Precautionary statements

Section 2. Hazards identification

Prevention

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|---|---|
| <ul style="list-style-type: none"> End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer | <ul style="list-style-type: none"> P264 - Wash hands thoroughly after handling. Not applicable. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P261 - Avoid breathing vapor. P264 - Wash hands thoroughly after handling. |
| <ul style="list-style-type: none"> Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer Mix SureSelect XT Low Input Index Bulk Set 2 A01-H12 | <ul style="list-style-type: none"> Not applicable. Not applicable. Not applicable. P264 - Wash hands thoroughly after handling. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P264 - Wash hands thoroughly after handling. Not applicable. Not applicable. |

Response

| | |
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| <ul style="list-style-type: none"> End Repair-A Tailing Enzyme Mix | <ul style="list-style-type: none"> P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention. |
| <ul style="list-style-type: none"> End Repair-A Tailing Buffer T4 DNA Ligase | <ul style="list-style-type: none"> 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 attention. |
| <ul style="list-style-type: none"> Ligation Buffer | <ul style="list-style-type: none"> P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention. |
| <ul style="list-style-type: none"> Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) Herculase II Fusion DNA Polymerase | <ul style="list-style-type: none"> Not applicable. Not applicable. 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 |

Section 2. Hazards identification

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| | 5X Herculase II Reaction Buffer | attention. |
| | SureSelect Binding Buffer | Not applicable. |
| | SureSelect Wash Buffer 1 | Not applicable. |
| | SureSelect Wash Buffer 2 | Not applicable. |
| | SureSelect XT HS and XT Low Input Blocker Mix | Not applicable. |
| | SureSelect Fast Hybridization Buffer | Not applicable. |
| | SureSelect RNase Block | P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention. |
| | SureSelect Post-Capture Primer Mix | Not applicable. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not applicable. |
| Storage | : End Repair-A Tailing Enzyme Mix | Not applicable. |
| | End Repair-A Tailing Buffer | Not applicable. |
| | T4 DNA Ligase | Not applicable. |
| | Ligation Buffer | P405 - Store locked up. |
| | Adaptor Oligo Mix | Not applicable. |
| | Forward Primer | Not applicable. |
| | 100 mM dNTP Mix (25 mM each dNTP) | Not applicable. |
| | Herculase II Fusion DNA Polymerase | Not applicable. |
| | 5X Herculase II Reaction Buffer | Not applicable. |
| | SureSelect Binding Buffer | Not applicable. |
| | SureSelect Wash Buffer 1 | Not applicable. |
| | SureSelect Wash Buffer 2 | Not applicable. |
| | SureSelect XT HS and XT Low Input Blocker Mix | Not applicable. |
| | SureSelect Fast Hybridization Buffer | Not applicable. |
| | SureSelect RNase Block | Not applicable. |
| | SureSelect Post-Capture Primer Mix | Not applicable. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not applicable. |
| Disposal | : End Repair-A Tailing Enzyme Mix | Not applicable. |
| | End Repair-A Tailing Buffer | Not applicable. |
| | T4 DNA Ligase | Not applicable. |
| | Ligation Buffer | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| | Adaptor Oligo Mix | Not applicable. |
| | Forward Primer | Not applicable. |
| | 100 mM dNTP Mix (25 mM each dNTP) | Not applicable. |
| | Herculase II Fusion DNA Polymerase | Not applicable. |
| | 5X Herculase II Reaction Buffer | Not applicable. |
| | SureSelect Binding Buffer | Not applicable. |
| | SureSelect Wash Buffer 1 | Not applicable. |
| | SureSelect Wash Buffer 2 | Not applicable. |

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| | SureSelect XT HS and XT Low Input Blocker Mix | Not applicable. |
| | SureSelect Fast Hybridization Buffer | Not applicable. |
| | SureSelect RNase Block | Not applicable. |
| | SureSelect Post-Capture Primer Mix | Not applicable. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not applicable. |
| Supplemental label elements | : End Repair-A Tailing Enzyme Mix | None known. |
| | End Repair-A Tailing Buffer | None known. |
| | T4 DNA Ligase | None known. |
| | Ligation Buffer | None known. |
| | Adaptor Oligo Mix | None known. |
| | Forward Primer | None known. |
| | 100 mM dNTP Mix (25 mM each dNTP) | None known. |
| | Herculase II Fusion DNA Polymerase | None known. |
| | 5X Herculase II Reaction Buffer | None known. |
| | SureSelect Binding Buffer | None known. |
| | SureSelect Wash Buffer 1 | None known. |
| | SureSelect Wash Buffer 2 | None known. |
| | SureSelect XT HS and XT Low Input Blocker Mix | None known. |
| | SureSelect Fast Hybridization Buffer | None known. |
| | SureSelect RNase Block | None known. |
| | SureSelect Post-Capture Primer Mix | None known. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | None known. |

2.3 Other hazards

Hazards not otherwise classified

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| : End Repair-A Tailing Enzyme Mix | None known. |
| End Repair-A Tailing Buffer | None known. |
| T4 DNA Ligase | None known. |
| Ligation Buffer | None known. |
| Adaptor Oligo Mix | None known. |
| Forward Primer | None known. |
| 100 mM dNTP Mix (25 mM each dNTP) | None known. |
| Herculase II Fusion DNA Polymerase | None known. |
| 5X Herculase II Reaction Buffer | None known. |
| SureSelect Binding Buffer | None known. |
| SureSelect Wash Buffer 1 | None known. |
| SureSelect Wash Buffer 2 | None known. |
| SureSelect XT HS and XT Low Input Blocker Mix | None known. |
| SureSelect Fast Hybridization Buffer | None known. |
| SureSelect RNase Block | None known. |
| SureSelect Post-Capture Primer Mix | None known. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | None known. |

Section 3. Composition/information on ingredients

| | | | |
|--------------------------|---|--|---------|
| Substance/mixture | : | End Repair-A Tailing Enzyme Mix | Mixture |
| | | End Repair-A Tailing Buffer | Mixture |
| | | T4 DNA Ligase | Mixture |
| | | Ligation Buffer | Mixture |
| | | Adaptor Oligo Mix | Mixture |
| | | Forward Primer | Mixture |
| | | 100 mM dNTP Mix (25 mM each dNTP) | Mixture |
| | | Herculase II Fusion DNA Polymerase | Mixture |
| | | 5X Herculase II Reaction Buffer | Mixture |
| | | SureSelect Binding Buffer | Mixture |
| | | SureSelect Wash Buffer 1 | Mixture |
| | | SureSelect Wash Buffer 2 | Mixture |
| | | SureSelect XT HS and XT Low Input Blocker Mix | Mixture |
| | | SureSelect Fast Hybridization Buffer | Mixture |
| | | SureSelect RNase Block | Mixture |
| | | SureSelect Post-Capture Primer Mix | Mixture |
| | | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Mixture |

| Ingredient name | % | CAS number |
|---|------------------------|-----------------------------------|
| End Repair-A Tailing Enzyme Mix Glycerol | ≥50 - ≤75 | 56-81-5 |
| End Repair-A Tailing Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride Potassium chloride | ≤3 ≤3 | 1185-53-1 7447-40-7 |
| T4 DNA Ligase Glycerol | ≥50 - ≤75 | 56-81-5 |
| Ligation Buffer Polyethylene glycol Glycerol | ≥10 - ≤25 ≥10 - ≤25 | 25322-68-3 56-81-5 |
| Herculase II Fusion DNA Polymerase Glycerol | ≥50 - ≤75 | 56-81-5 |
| 5X Herculase II Reaction Buffer Trometamol Ammonium sulphate Hexadecan-1-ol, ethoxylated | ≤3 <2.5 ≤3 | 77-86-1 7783-20-2 9004-95-9 |
| SureSelect Binding Buffer Sodium chloride | <10 | 7647-14-5 |
| SureSelect Fast Hybridization Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride | ≤3 | 1185-53-1 |
| SureSelect RNase Block Glycerol | ≥50 - ≤75 | 56-81-5 |

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

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

Section 3. Composition/information on ingredients


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

Section 4. First aid measures

4.1 Description of necessary first aid measures

| | | |
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| Eye contact | : End Repair-A Tailing Enzyme Mix | 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. |
| | End Repair-A Tailing 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. |
| | T4 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 Buffer | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention. |
| | Adaptor Oligo Mix | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | Forward Primer | 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. |
| | 100 mM dNTP Mix (25 mM each dNTP) | 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. |
| | Herculase II Fusion DNA Polymerase | 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. |
| | 5X Herculase II Reaction Buffer | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | SureSelect Binding 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. |
| | SureSelect Wash Buffer 1 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | SureSelect Wash Buffer 2 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | SureSelect XT HS and XT Low Input Blocker Mix | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. |

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| | SureSelect Fast Hybridization Buffer | Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | SureSelect RNase Block | 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. |
| | SureSelect Post-Capture Primer Mix | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| Inhalation | :  End Repair-A Tailing Enzyme Mix | 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. |
| | End Repair-A Tailing Buffer | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| | T4 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 Buffer | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth |

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| | resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Adaptor Oligo Mix | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Forward Primer | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| 100 mM dNTP Mix (25 mM each dNTP) | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Herculase II Fusion DNA Polymerase | 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. |
| 5X Herculase II Reaction Buffer | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| SureSelect Binding Buffer | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect Wash Buffer 1 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect Wash Buffer 2 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect XT HS and XT Low Input Blocker Mix | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| SureSelect Fast Hybridization Buffer | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| SureSelect RNase Block | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not |

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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.

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 position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact

: End Repair-A Tailing Enzyme Mix

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.

End Repair-A Tailing Buffer

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

T4 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 Buffer

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.

Adaptor Oligo Mix

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Forward Primer

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

100 mM dNTP Mix (25 mM each dNTP)

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Herculase II Fusion DNA Polymerase

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.

5X Herculase II Reaction Buffer

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

SureSelect Binding Buffer

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

SureSelect Wash Buffer 1

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

SureSelect Wash Buffer 2

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

Section 4. First aid measures

| | | |
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| | SureSelect XT HS and XT Low Input Blocker Mix | <p>medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p> |
| | SureSelect Fast Hybridization Buffer | <p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p> |
| | SureSelect RNase Block | <p>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.</p> |
| | SureSelect Post-Capture Primer Mix | <p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p> |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | <p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p> |
| <p>Ingestion</p> | <p>: End Repair-A Tailing Enzyme Mix</p> | <p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p> |
| | End Repair-A Tailing Buffer | <p>Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p> |
| | T4 DNA Ligase | <p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p> |
| | Ligation Buffer | <p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in</p> |

Section 4. First aid measures

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| | a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Adaptor Oligo Mix | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Forward Primer | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| 100 mM dNTP Mix (25 mM each dNTP) | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Herculase II Fusion DNA Polymerase | Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| 5X Herculase II Reaction Buffer | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| SureSelect Binding Buffer | Wash out mouth with water. Remove victim to |

Section 4. First aid measures

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| | fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| SureSelect Wash Buffer 1 | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| SureSelect Wash Buffer 2 | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| SureSelect XT HS and XT Low Input Blocker Mix | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| SureSelect Fast Hybridization Buffer | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| SureSelect RNase Block | Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| SureSelect Post-Capture Primer Mix | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable |

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for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

- : End Repair-A Tailing Enzyme Mix Causes eye irritation.
- End Repair-A Tailing Buffer No known significant effects or critical hazards.
- T4 DNA Ligase Causes eye irritation.
- Ligation Buffer Causes eye irritation.
- Adaptor Oligo Mix No known significant effects or critical hazards.
- Forward Primer No known significant effects or critical hazards.
- 100 mM dNTP Mix (25 mM each dNTP) No known significant effects or critical hazards.
- Herculase II Fusion DNA Polymerase Causes eye irritation.
- 5X Herculase II Reaction Buffer No known significant effects or critical hazards.
- SureSelect Binding Buffer No known significant effects or critical hazards.
- SureSelect Wash Buffer 1 No known significant effects or critical hazards.
- SureSelect Wash Buffer 2 No known significant effects or critical hazards.
- SureSelect XT HS and XT Low Input Blocker Mix No known significant effects or critical hazards.
- SureSelect Fast Hybridization Buffer No known significant effects or critical hazards.
- SureSelect RNase Block Causes eye irritation.
- SureSelect Post-Capture Primer Mix No known significant effects or critical hazards.
- SureSelect XT Low Input Index Bulk Set 2 A01-H12 No known significant effects or critical hazards.

Inhalation

- : End Repair-A Tailing Enzyme Mix No known significant effects or critical hazards.
- End Repair-A Tailing Buffer No known significant effects or critical hazards.
- T4 DNA Ligase No known significant effects or critical hazards.
- Ligation Buffer May cause respiratory irritation.
- Adaptor Oligo Mix No known significant effects or critical hazards.
- Forward Primer No known significant effects or critical hazards.
- 100 mM dNTP Mix (25 mM each dNTP) No known significant effects or critical hazards.
- Herculase II Fusion DNA Polymerase No known significant effects or critical hazards.
- 5X Herculase II Reaction Buffer No known significant effects or critical hazards.
- SureSelect Binding Buffer No known significant effects or critical hazards.
- SureSelect Wash Buffer 1 No known significant effects or critical hazards.
- SureSelect Wash Buffer 2 No known significant effects or critical hazards.
- SureSelect XT HS and XT Low Input Blocker Mix No known significant effects or critical hazards.
- SureSelect Fast Hybridization Buffer No known significant effects or critical hazards.
- SureSelect RNase Block No known significant effects or critical hazards.
- SureSelect Post-Capture Primer Mix No known significant effects or critical hazards.
- SureSelect XT Low Input Index Bulk Set 2 A01-H12 No known significant effects or critical hazards.

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| Skin contact | <ul style="list-style-type: none"> : End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer Mix SureSelect XT Low Input Index Bulk Set 2 A01-H12 | <ul style="list-style-type: none"> No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. 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 | <ul style="list-style-type: none"> : End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer Mix SureSelect XT Low Input Index Bulk Set 2 A01-H12 | <ul style="list-style-type: none"> No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. 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. |

Over-exposure signs/symptoms

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| Eye contact | <ul style="list-style-type: none"> : End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer | <ul style="list-style-type: none"> Adverse symptoms may include the following: irritation watering redness No specific data. Adverse symptoms may include the following: irritation watering redness Adverse symptoms may include the following: irritation |
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| | | watering redness No specific data. No specific data. No specific data. |
| | Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) Herculase II Fusion DNA Polymerase | Adverse symptoms may include the following: irritation watering redness |
| | 5X Herculase II Reaction Buffer SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block | No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness |
| | SureSelect Post-Capture Primer Mix SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No specific data. No specific data. |
| Inhalation | : End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer | No specific data. No specific data. No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing |
| | Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer Mix SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. |

Section 4. First aid measures

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|---------------------|---|--|-------------------|
| Skin contact | : | End Repair-A Tailing Enzyme Mix | No specific data. |
| | | End Repair-A Tailing Buffer | No specific data. |
| | | T4 DNA Ligase | No specific data. |
| | | Ligation Buffer | No specific data. |
| | | Adaptor Oligo Mix | No specific data. |
| | | Forward Primer | No specific data. |
| | | 100 mM dNTP Mix (25 mM each dNTP) | No specific data. |
| | | Herculase II Fusion DNA Polymerase | No specific data. |
| | | 5X Herculase II Reaction Buffer | No specific data. |
| | | SureSelect Binding Buffer | No specific data. |
| | | SureSelect Wash Buffer 1 | No specific data. |
| | | SureSelect Wash Buffer 2 | No specific data. |
| | | SureSelect XT HS and XT Low Input Blocker Mix | No specific data. |
| | | SureSelect Fast Hybridization Buffer | No specific data. |
| | | SureSelect RNase Block | No specific data. |
| | | SureSelect Post-Capture Primer Mix | No specific data. |
| | | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No specific data. |

| | | | |
|------------------|---|--|-------------------|
| Ingestion | : | End Repair-A Tailing Enzyme Mix | No specific data. |
| | | End Repair-A Tailing Buffer | No specific data. |
| | | T4 DNA Ligase | No specific data. |
| | | Ligation Buffer | No specific data. |
| | | Adaptor Oligo Mix | No specific data. |
| | | Forward Primer | No specific data. |
| | | 100 mM dNTP Mix (25 mM each dNTP) | No specific data. |
| | | Herculase II Fusion DNA Polymerase | No specific data. |
| | | 5X Herculase II Reaction Buffer | No specific data. |
| | | SureSelect Binding Buffer | No specific data. |
| | | SureSelect Wash Buffer 1 | No specific data. |
| | | SureSelect Wash Buffer 2 | No specific data. |
| | | SureSelect XT HS and XT Low Input Blocker Mix | No specific data. |
| | | SureSelect Fast Hybridization Buffer | No specific data. |
| | | SureSelect RNase Block | No specific data. |
| | | SureSelect Post-Capture Primer Mix | No specific data. |
| | | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No specific data. |

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

| | | | |
|---------------------------|---|---------------------------------|---|
| Notes to physician | : | End Repair-A Tailing Enzyme Mix | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | | End Repair-A Tailing Buffer | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| | | T4 DNA Ligase | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |

Section 4. First aid measures

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| Ligation Buffer | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Adaptor Oligo Mix | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Forward Primer | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| 100 mM dNTP Mix (25 mM each dNTP) | 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. |
| Herculase II Fusion DNA Polymerase | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| 5X Herculase II Reaction Buffer | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| SureSelect Binding Buffer | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| SureSelect Wash Buffer 1 | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| SureSelect Wash Buffer 2 | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| SureSelect XT HS and XT Low Input Blocker Mix | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| SureSelect Fast Hybridization Buffer | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| SureSelect RNase Block | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| SureSelect Post-Capture Primer Mix | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |

Specific treatments

| | |
|------------------------------------|------------------------|
| : End Repair-A Tailing Enzyme Mix | No specific treatment. |
| End Repair-A Tailing Buffer | No specific treatment. |
| T4 DNA Ligase | No specific treatment. |
| Ligation Buffer | No specific treatment. |
| Adaptor Oligo Mix | No specific treatment. |
| Forward Primer | No specific treatment. |
| 100 mM dNTP Mix (25 mM each dNTP) | No specific treatment. |
| Herculase II Fusion DNA Polymerase | No specific treatment. |
| 5X Herculase II Reaction Buffer | No specific treatment. |
| SureSelect Binding Buffer | No specific treatment. |
| SureSelect Wash Buffer 1 | No specific treatment. |
| SureSelect Wash Buffer 2 | No specific treatment. |

Section 4. First aid measures

| | | |
|-----------------------------------|--|--|
| | SureSelect XT HS and XT Low Input Blocker Mix | No specific treatment. |
| | SureSelect Fast Hybridization Buffer | No specific treatment. |
| | SureSelect RNase Block | No specific treatment. |
| | SureSelect Post-Capture Primer Mix | No specific treatment. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No specific treatment. |
| Protection of first-aiders | : End Repair-A Tailing Enzyme Mix | 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. |
| | End Repair-A Tailing Buffer | No action shall be taken involving any personal risk or without suitable training. |
| | T4 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. |
| | Ligation Buffer | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |
| | Adaptor Oligo Mix | No action shall be taken involving any personal risk or without suitable training. |
| | Forward Primer | No action shall be taken involving any personal risk or without suitable training. |
| | 100 mM dNTP Mix (25 mM each dNTP) | No action shall be taken involving any personal risk or without suitable training. |
| | Herculase II Fusion DNA Polymerase | 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. |
| | 5X Herculase II Reaction Buffer | No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect Binding Buffer | No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect Wash Buffer 1 | No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect Wash Buffer 2 | No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect XT HS and XT Low Input Blocker Mix | No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect Fast Hybridization Buffer | No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect RNase Block | 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. |
| | SureSelect Post-Capture Primer Mix | No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No action shall be taken involving any personal risk or without suitable training. |

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

| | |
|--|---|
| : End Repair-A Tailing Enzyme Mix | Use an extinguishing agent suitable for the surrounding fire. |
| End Repair-A Tailing Buffer | Use an extinguishing agent suitable for the surrounding fire. |
| T4 DNA Ligase | Use an extinguishing agent suitable for the surrounding fire. |
| Ligation Buffer | Use an extinguishing agent suitable for the surrounding fire. |
| Adaptor Oligo Mix | Use an extinguishing agent suitable for the surrounding fire. |
| Forward Primer | Use an extinguishing agent suitable for the surrounding fire. |
| 100 mM dNTP Mix (25 mM each dNTP) | Use an extinguishing agent suitable for the surrounding fire. |
| Herculase II Fusion DNA Polymerase | Use an extinguishing agent suitable for the surrounding fire. |
| 5X Herculase II Reaction Buffer | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect Binding Buffer | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect Wash Buffer 1 | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect Wash Buffer 2 | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect XT HS and XT Low Input Blocker Mix | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect Fast Hybridization Buffer | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect RNase Block | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect Post-Capture Primer Mix | Use an extinguishing agent suitable for the surrounding fire. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Use an extinguishing agent suitable for the surrounding fire. |

Unsuitable extinguishing media

| | |
|--|-------------|
| : End Repair-A Tailing Enzyme Mix | None known. |
| End Repair-A Tailing Buffer | None known. |
| T4 DNA Ligase | None known. |
| Ligation Buffer | None known. |
| Adaptor Oligo Mix | None known. |
| Forward Primer | None known. |
| 100 mM dNTP Mix (25 mM each dNTP) | None known. |
| Herculase II Fusion DNA Polymerase | None known. |
| 5X Herculase II Reaction Buffer | None known. |
| SureSelect Binding Buffer | None known. |
| SureSelect Wash Buffer 1 | None known. |
| SureSelect Wash Buffer 2 | None known. |
| SureSelect XT HS and XT Low Input Blocker Mix | None known. |
| SureSelect Fast Hybridization Buffer | None known. |
| SureSelect RNase Block | None known. |
| SureSelect Post-Capture Primer Mix | None known. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | None known. |

Section 5. Fire-fighting measures

5.2 Special hazards arising from the substance or mixture

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| Specific hazards arising from the chemical | <ul style="list-style-type: none"> : End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer Mix SureSelect XT Low Input Index Bulk Set 2 A01-H12 | <ul style="list-style-type: none"> In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. |
| Hazardous thermal decomposition products | <ul style="list-style-type: none"> : End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each | <ul style="list-style-type: none"> Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide No specific data. No specific data. Decomposition products may include the following |

Section 5. Fire-fighting measures

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|---|---|
| dNTP) | materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides |
| Herculase II Fusion DNA Polymerase | Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| 5X Herculase II Reaction Buffer | Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides |
| SureSelect Binding Buffer | Decomposition products may include the following materials: halogenated compounds metal oxide/oxides |
| SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer | No specific data. No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides |
| SureSelect RNase Block | Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| SureSelect Post-Capture Primer Mix SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No specific data. No specific data. |

5.3 Advice for firefighters

Special protective actions for fire-fighters

| | |
|-----------------------------------|---|
| : End Repair-A Tailing Enzyme Mix | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| End Repair-A Tailing 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. |
| T4 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 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. |
| Adaptor Oligo Mix | Promptly isolate the scene by removing all persons |

Section 5. Fire-fighting measures

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| | | from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | Forward Primer | 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. |
| | 100 mM dNTP Mix (25 mM each dNTP) | 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. |
| | Herculase II Fusion DNA Polymerase | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | 5X Herculase II Reaction Buffer | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect Binding 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. |
| | SureSelect Wash Buffer 1 | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect Wash Buffer 2 | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect XT HS and XT Low Input Blocker Mix | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect Fast Hybridization Buffer | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect RNase Block | 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. |
| | SureSelect Post-Capture Primer Mix | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| | SureSelect XT Low Input Index Bulk Set 2 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. |
| Special protective equipment for fire-fighters | : End Repair-A Tailing Enzyme Mix | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| | End Repair-A Tailing Buffer | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

Section 5. Fire-fighting measures

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| T4 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 Buffer | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Adaptor Oligo Mix | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Forward Primer | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| 100 mM dNTP Mix (25 mM each dNTP) | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| Herculase II Fusion DNA Polymerase | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| 5X Herculase II Reaction Buffer | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| SureSelect Binding Buffer | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| SureSelect Wash Buffer 1 | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| SureSelect Wash Buffer 2 | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| SureSelect XT HS and XT Low Input Blocker Mix | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| SureSelect Fast Hybridization Buffer | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| SureSelect RNase Block | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| SureSelect Post-Capture Primer Mix | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive |

Section 5. Fire-fighting measures

pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures


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| For non-emergency personnel | : End Repair-A Tailing Enzyme Mix | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| | End Repair-A Tailing Buffer | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. |
| | T4 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| | Ligation Buffer | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| | Adaptor Oligo Mix | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. |
| | Forward Primer | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. |
| | 100 mM dNTP Mix (25 mM each dNTP) | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. |
| | Herculase II Fusion DNA Polymerase | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and |

Section 6. Accidental release measures

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| | unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| 5X Herculase II Reaction Buffer | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. |
| SureSelect Binding Buffer | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. |
| SureSelect Wash Buffer 1 | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. |
| SureSelect Wash Buffer 2 | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. |
| SureSelect XT HS and XT Low Input Blocker Mix | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. |
| SureSelect Fast Hybridization Buffer | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. |
| SureSelect RNase Block | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| SureSelect Post-Capture Primer Mix | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No action shall be taken involving any personal risk or without suitable training. Evacuate |

Section 6. Accidental release measures

6.2 Environmental precautions

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| SureSelect RNase Block | the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| SureSelect Post-Capture Primer Mix | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| :  End Repair-A Tailing Enzyme Mix | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| End Repair-A Tailing Buffer | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| T4 DNA Ligase | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Ligation Buffer | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Adaptor Oligo Mix | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Forward Primer | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| 100 mM dNTP Mix (25 mM each dNTP) | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| Herculase II Fusion DNA Polymerase | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| 5X Herculase II Reaction Buffer | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, |

Section 6. Accidental release measures

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| SureSelect Binding Buffer | waterways, soil or air). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| SureSelect Wash Buffer 1 | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| SureSelect Wash Buffer 2 | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| SureSelect XT HS and XT Low Input Blocker Mix | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| SureSelect Fast Hybridization Buffer | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| SureSelect RNase Block | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| SureSelect Post-Capture Primer Mix | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |

6.3 Methods and materials for containment and cleaning up

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| Methods for cleaning up | : End Repair-A Tailing Enzyme Mix | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| | End Repair-A Tailing 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. |
| | T4 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 |

Section 6. Accidental release measures

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| | inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Ligation 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. |
| Adaptor Oligo Mix | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Forward Primer | 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. |
| 100 mM dNTP Mix (25 mM each dNTP) | 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. |
| Herculase II Fusion DNA Polymerase | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| 5X Herculase II Reaction Buffer | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| SureSelect Binding 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. |
| SureSelect Wash Buffer 1 | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| SureSelect Wash Buffer 2 | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| SureSelect XT HS and XT Low Input Blocker Mix | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. |

Section 6. Accidental release measures

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| SureSelect Fast Hybridization Buffer | 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. 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. |
| SureSelect RNase Block | 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. |
| SureSelect Post-Capture Primer Mix | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| SureSelect XT Low Input Index Bulk Set 2 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. |

Section 7. Handling and storage

7.1 Precautions for safe handling

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| Protective measures | : End Repair-A Tailing Enzyme Mix | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| | End Repair-A Tailing Buffer | Put on appropriate personal protective equipment (see Section 8). |
| | T4 DNA Ligase | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| | Ligation Buffer | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be |

Section 7. Handling and storage

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| <p>Adaptor Oligo Mix</p> <p>Forward Primer</p> <p>100 mM dNTP Mix (25 mM each dNTP)</p> <p>Herculase II Fusion DNA Polymerase</p> <p>5X Herculase II Reaction Buffer</p> <p>SureSelect Binding Buffer</p> <p>SureSelect Wash Buffer 1</p> <p>SureSelect Wash Buffer 2</p> <p>SureSelect XT HS and XT Low Input Blocker Mix</p> <p>SureSelect Fast Hybridization Buffer</p> <p>SureSelect RNase Block</p> <p>SureSelect Post-Capture Primer Mix</p> <p>SureSelect XT Low Input Index Bulk Set 2 A01-H12</p> <p>Advice on general occupational hygiene</p> | <p>hazardous. Do not reuse container. Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>: End Repair-A Tailing Enzyme Mix</p> <p>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.</p> <p>End Repair-A Tailing Buffer</p> <p>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.</p> <p>T4 DNA Ligase</p> <p>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</p> |
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Section 7. Handling and storage

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| Ligation Buffer | for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Adaptor Oligo Mix | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Forward Primer | 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. |
| 100 mM dNTP Mix (25 mM each dNTP) | 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. |
| Herculase II Fusion DNA Polymerase | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| 5X Herculase II Reaction Buffer | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| SureSelect Binding Buffer | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| SureSelect Wash Buffer 1 | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| SureSelect Wash Buffer 2 | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and |

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SureSelect XT HS and XT Low Input Blocker Mix

SureSelect Fast Hybridization Buffer

SureSelect RNase Block

SureSelect Post-Capture Primer Mix

SureSelect XT Low Input Index Bulk Set 2 A01-H12

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.

7.2 Conditions for safe storage, including any incompatibilities

: End Repair-A Tailing Enzyme Mix

Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

End Repair-A Tailing Buffer

Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area,

Section 7. Handling and storage

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| | <p>away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p> |
| T4 DNA Ligase | <p>Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p> |
| Ligation Buffer | <p>Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p> |
| Adaptor Oligo Mix | <p>Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p> |
| Forward Primer | <p>Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</p> |

Section 7. Handling and storage

100 mM dNTP Mix (25 mM each dNTP)

See Section 10 for incompatible materials before handling or use.
Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Herculase II Fusion DNA Polymerase

Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

5X Herculase II Reaction Buffer

Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SureSelect Binding Buffer

Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SureSelect Wash Buffer 1

Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10)

Section 7. Handling and storage

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| | and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| SureSelect Wash Buffer 2 | Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| SureSelect XT HS and XT Low Input Blocker Mix | Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| SureSelect Fast Hybridization Buffer | Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| SureSelect RNase Block | Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before |

Section 7. Handling and storage

| | |
|--|---|
| SureSelect Post-Capture Primer Mix | handling or use. Storage temperature: -80°C (-112°F). Store in accordance with local regulations. Shelf life: 1 Year. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |

7.3 Specific end use(s)

Recommendations

| | |
|--|---|
| : End Repair-A Tailing Enzyme Mix | Industrial applications, Professional applications. |
| End Repair-A Tailing Buffer | Industrial applications, Professional applications. |
| T4 DNA Ligase | Industrial applications, Professional applications. |
| Ligation Buffer | Industrial applications, Professional applications. |
| Adaptor Oligo Mix | Industrial applications, Professional applications. |
| Forward Primer | Industrial applications, Professional applications. |
| 100 mM dNTP Mix (25 mM each dNTP) | Industrial applications, Professional applications. |
| Herculase II Fusion DNA Polymerase | Industrial applications, Professional applications. |
| 5X Herculase II Reaction Buffer | Industrial applications, Professional applications. |
| SureSelect Binding Buffer | Industrial applications, Professional applications. |
| SureSelect Wash Buffer 1 | Industrial applications, Professional applications. |
| SureSelect Wash Buffer 2 | Industrial applications, Professional applications. |
| SureSelect XT HS and XT Low Input Blocker Mix | Industrial applications, Professional applications. |
| SureSelect Fast Hybridization Buffer | Industrial applications, Professional applications. |
| SureSelect RNase Block | Industrial applications, Professional applications. |
| SureSelect Post-Capture Primer Mix | Industrial applications, Professional applications. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Industrial applications, Professional applications. |

Industrial sector specific solutions

| | |
|-----------------------------------|-----------------|
| : End Repair-A Tailing Enzyme Mix | Not applicable. |
| End Repair-A Tailing Buffer | Not applicable. |
| T4 DNA Ligase | Not applicable. |
| Ligation Buffer | Not applicable. |
| Adaptor Oligo Mix | Not applicable. |
| Forward Primer | Not applicable. |
| 100 mM dNTP Mix (25 mM each dNTP) | Not applicable. |

Section 7. Handling and storage

| | |
|--|-----------------|
| Herculase II Fusion DNA Polymerase | Not applicable. |
| 5X Herculase II Reaction Buffer | Not applicable. |
| SureSelect Binding Buffer | Not applicable. |
| SureSelect Wash Buffer 1 | Not applicable. |
| SureSelect Wash Buffer 2 | Not applicable. |
| SureSelect XT HS and XT Low Input Blocker Mix | Not applicable. |
| SureSelect Fast Hybridization Buffer | Not applicable. |
| SureSelect RNase Block | Not applicable. |
| SureSelect Post-Capture Primer Mix | Not applicable. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not applicable. |

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|---|--|
| End Repair-A Tailing Enzyme Mix Glycerol | OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust |
| End Repair-A Tailing Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride Potassium chloride | None. None. |
| T4 DNA Ligase Glycerol | OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust |
| Ligation Buffer Polyethylene glycol Glycerol | AIHA WEEL (United States, 5/2018). TWA: 10 mg/m ³ 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust |

Section 8. Exposure controls/personal protection

| | |
|--|---|
| <p>Herculase II Fusion DNA Polymerase Glycerol</p> | <p>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust</p> |
| <p>5X Herculase II Reaction Buffer Trometamol Ammonium sulphate Hexadecan-1-ol, ethoxylated</p> | <p>None. None. None.</p> |
| <p>SureSelect Binding Buffer Sodium chloride</p> | <p>None.</p> |
| <p>SureSelect Fast Hybridization Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride</p> | <p>None.</p> |
| <p>SureSelect RNase Block Glycerol</p> | <p>OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 10 mg/m³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust</p> |

8.2 Exposure controls

Appropriate engineering controls

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

Environmental exposure controls

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

Individual protection measures

Hygiene measures

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

Eye/face protection

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

Skin protection

Section 8. Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | | | |
|-----------------------|---|--|----------------|
| Physical state | : | End Repair-A Tailing Enzyme Mix | Liquid. |
| | | End Repair-A Tailing Buffer | Liquid. |
| | | T4 DNA Ligase | Liquid. |
| | | Ligation Buffer | Liquid. |
| | | Adaptor Oligo Mix | Liquid. |
| | | Forward Primer | Liquid. |
| | | 100 mM dNTP Mix (25 mM each dNTP) | Liquid. |
| | | Herculase II Fusion DNA Polymerase | Liquid. |
| | | 5X Herculase II Reaction Buffer | Liquid. |
| | | SureSelect Binding Buffer | Liquid. |
| | | SureSelect Wash Buffer 1 | Liquid. |
| | | SureSelect Wash Buffer 2 | Liquid. |
| | | SureSelect XT HS and XT Low Input Blocker Mix | Liquid. |
| | | SureSelect Fast Hybridization Buffer | Liquid. |
| | | SureSelect RNase Block | Liquid. |
| | | SureSelect Post-Capture Primer Mix | Liquid. |
| | | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Liquid. |
| Color | : | End Repair-A Tailing Enzyme Mix | Not available. |
| | | End Repair-A Tailing Buffer | Not available. |
| | | T4 DNA Ligase | Not available. |
| | | Ligation Buffer | Not available. |
| | | Adaptor Oligo Mix | Not available. |
| | | Forward Primer | Not available. |
| | | 100 mM dNTP Mix (25 mM each dNTP) | Not available. |
| | | Herculase II Fusion DNA Polymerase | Not available. |
| | | 5X Herculase II Reaction Buffer | Not available. |
| | | SureSelect Binding Buffer | Not available. |
| | | SureSelect Wash Buffer 1 | Not available. |

Section 9. Physical and chemical properties

| | | |
|-----------------------|--|----------------|
| | SureSelect Wash Buffer 2 | Not available. |
| | SureSelect XT HS and XT Low Input Blocker Mix | Not available. |
| | SureSelect Fast Hybridization Buffer | Not available. |
| | SureSelect RNase Block | Not available. |
| | SureSelect Post-Capture Primer Mix | Not available. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not available. |
| Odor | : End Repair-A Tailing Enzyme Mix | Not available. |
| | End Repair-A Tailing Buffer | Not available. |
| | T4 DNA Ligase | Not available. |
| | Ligation Buffer | Not available. |
| | Adaptor Oligo Mix | Not available. |
| | Forward Primer | Not available. |
| | 100 mM dNTP Mix (25 mM each dNTP) | Not available. |
| | Herculase II Fusion DNA Polymerase | Not available. |
| | 5X Herculase II Reaction Buffer | Not available. |
| | SureSelect Binding Buffer | Not available. |
| | SureSelect Wash Buffer 1 | Not available. |
| | SureSelect Wash Buffer 2 | Not available. |
| | SureSelect XT HS and XT Low Input Blocker Mix | Not available. |
| | SureSelect Fast Hybridization Buffer | Not available. |
| | SureSelect RNase Block | Not available. |
| | SureSelect Post-Capture Primer Mix | Not available. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not available. |
| Odor threshold | : End Repair-A Tailing Enzyme Mix | Not available. |
| | End Repair-A Tailing Buffer | Not available. |
| | T4 DNA Ligase | Not available. |
| | Ligation Buffer | Not available. |
| | Adaptor Oligo Mix | Not available. |
| | Forward Primer | Not available. |
| | 100 mM dNTP Mix (25 mM each dNTP) | Not available. |
| | Herculase II Fusion DNA Polymerase | Not available. |
| | 5X Herculase II Reaction Buffer | Not available. |
| | SureSelect Binding Buffer | Not available. |
| | SureSelect Wash Buffer 1 | Not available. |
| | SureSelect Wash Buffer 2 | Not available. |
| | SureSelect XT HS and XT Low Input Blocker Mix | Not available. |
| | SureSelect Fast Hybridization Buffer | Not available. |
| | SureSelect RNase Block | Not available. |
| | SureSelect Post-Capture Primer Mix | Not available. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not available. |

pH :

Section 9. Physical and chemical properties

| | |
|--|----------------|
| End Repair-A Tailing Enzyme Mix | 6.5 |
| End Repair-A Tailing Buffer | 8 |
| T4 DNA Ligase | 7.5 |
| Ligation Buffer | 8 |
| Adaptor Oligo Mix | 7.5 |
| Forward Primer | 7.5 |
| 100 mM dNTP Mix (25 mM each dNTP) | 7.5 |
| Herculase II Fusion DNA Polymerase | 8.2 |
| 5X Herculase II Reaction Buffer | 9.5 to 10.5 |
| SureSelect Binding Buffer | 7.5 |
| SureSelect Wash Buffer 1 | 6.5 to 7.5 |
| SureSelect Wash Buffer 2 | 6.8 to 7.8 |
| SureSelect XT HS and XT Low Input Blocker Mix | 7.5 |
| SureSelect Fast Hybridization Buffer | Not available. |
| SureSelect RNase Block | 7.6 |
| SureSelect Post-Capture Primer Mix | 7.5 |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | 7.5 |

Melting point

| | |
|--|----------------|
| : End Repair-A Tailing Enzyme Mix | Not available. |
| End Repair-A Tailing Buffer | 0°C (32°F) |
| T4 DNA Ligase | Not available. |
| Ligation Buffer | Not available. |
| Adaptor Oligo Mix | 0°C (32°F) |
| Forward Primer | 0°C (32°F) |
| 100 mM dNTP Mix (25 mM each dNTP) | Not available. |
| Herculase II Fusion DNA Polymerase | Not available. |
| 5X Herculase II Reaction Buffer | Not available. |
| SureSelect Binding Buffer | Not available. |
| SureSelect Wash Buffer 1 | 0°C (32°F) |
| SureSelect Wash Buffer 2 | 0°C (32°F) |
| SureSelect XT HS and XT Low Input Blocker Mix | 0°C (32°F) |
| SureSelect Fast Hybridization Buffer | Not available. |
| SureSelect RNase Block | Not available. |
| SureSelect Post-Capture Primer Mix | 0°C (32°F) |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | 0°C (32°F) |

Boiling point

| | |
|------------------------------------|----------------|
| : End Repair-A Tailing Enzyme Mix | Not available. |
| End Repair-A Tailing Buffer | 100°C (212°F) |
| T4 DNA Ligase | Not available. |
| Ligation Buffer | Not available. |
| Adaptor Oligo Mix | 100°C (212°F) |
| Forward Primer | 100°C (212°F) |
| 100 mM dNTP Mix (25 mM each dNTP) | Not available. |
| Herculase II Fusion DNA Polymerase | Not available. |
| 5X Herculase II Reaction Buffer | Not available. |
| SureSelect Binding Buffer | Not available. |

Section 9. Physical and chemical properties

| | | |
|-------------------------|--|----------------|
| | SureSelect Wash Buffer 1 | 100°C (212°F) |
| | SureSelect Wash Buffer 2 | 100°C (212°F) |
| | SureSelect XT HS and XT Low Input Blocker Mix | 100°C (212°F) |
| | SureSelect Fast Hybridization Buffer | Not available. |
| | SureSelect RNase Block | Not available. |
| | SureSelect Post-Capture Primer Mix | 100°C (212°F) |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | 100°C (212°F) |
| Flash point | : End Repair-A Tailing Enzyme Mix | Not available. |
| | End Repair-A Tailing Buffer | Not available. |
| | T4 DNA Ligase | Not available. |
| | Ligation Buffer | Not available. |
| | Adaptor Oligo Mix | Not available. |
| | Forward Primer | Not available. |
| | 100 mM dNTP Mix (25 mM each dNTP) | Not available. |
| | Herculase II Fusion DNA Polymerase | Not available. |
| | 5X Herculase II Reaction Buffer | Not available. |
| | SureSelect Binding Buffer | Not available. |
| | SureSelect Wash Buffer 1 | Not available. |
| | SureSelect Wash Buffer 2 | Not available. |
| | SureSelect XT HS and XT Low Input Blocker Mix | Not available. |
| | SureSelect Fast Hybridization Buffer | Not available. |
| | SureSelect RNase Block | Not available. |
| | SureSelect Post-Capture Primer Mix | Not available. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not available. |
| Evaporation rate | : End Repair-A Tailing Enzyme Mix | Not available. |
| | End Repair-A Tailing Buffer | Not available. |
| | T4 DNA Ligase | Not available. |
| | Ligation Buffer | Not available. |
| | Adaptor Oligo Mix | Not available. |
| | Forward Primer | Not available. |
| | 100 mM dNTP Mix (25 mM each dNTP) | Not available. |
| | Herculase II Fusion DNA Polymerase | Not available. |
| | 5X Herculase II Reaction Buffer | Not available. |
| | SureSelect Binding Buffer | Not available. |
| | SureSelect Wash Buffer 1 | Not available. |
| | SureSelect Wash Buffer 2 | Not available. |
| | SureSelect XT HS and XT Low Input Blocker Mix | Not available. |
| | SureSelect Fast Hybridization Buffer | Not available. |
| | SureSelect RNase Block | Not available. |
| | SureSelect Post-Capture Primer Mix | Not available. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not available. |

Section 9. Physical and chemical properties

| | | | | |
|----------------------------------|---|--|---------------------------------|----------------|
| Flammability (solid, gas) | : | End Repair-A Tailing Enzyme Mix | Not applicable. | |
| | | End Repair-A Tailing Buffer | Not applicable. | |
| | | T4 DNA Ligase | Not applicable. | |
| | | Ligation Buffer | Not applicable. | |
| | | Adaptor Oligo Mix | Not applicable. | |
| | | Forward Primer | Not applicable. | |
| | | 100 mM dNTP Mix (25 mM each dNTP) | Not applicable. | |
| | | Herculase II Fusion DNA Polymerase | Not applicable. | |
| | | 5X Herculase II Reaction Buffer | Not applicable. | |
| | | SureSelect Binding Buffer | Not applicable. | |
| | | SureSelect Wash Buffer 1 | Not applicable. | |
| | | SureSelect Wash Buffer 2 | Not applicable. | |
| | | SureSelect XT HS and XT Low Input Blocker Mix | Not applicable. | |
| | | SureSelect Fast Hybridization Buffer | Not applicable. | |
| | | SureSelect RNase Block | Not applicable. | |
| | | SureSelect Post-Capture Primer Mix | Not applicable. | |
| | | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not applicable. | |
| | Lower and upper explosive (flammable) limits | : | End Repair-A Tailing Enzyme Mix | Not available. |
| | | | End Repair-A Tailing Buffer | Not available. |
| | | | T4 DNA Ligase | Not available. |
| | | Ligation Buffer | Not available. | |
| | | Adaptor Oligo Mix | Not available. | |
| | | Forward Primer | Not available. | |
| | | 100 mM dNTP Mix (25 mM each dNTP) | Not available. | |
| | | Herculase II Fusion DNA Polymerase | Not available. | |
| | | 5X Herculase II Reaction Buffer | Not available. | |
| | | SureSelect Binding Buffer | Not available. | |
| | | SureSelect Wash Buffer 1 | Not available. | |
| | | SureSelect Wash Buffer 2 | Not available. | |
| | | SureSelect XT HS and XT Low Input Blocker Mix | Not available. | |
| | | SureSelect Fast Hybridization Buffer | Not available. | |
| | | SureSelect RNase Block | Not available. | |
| | | SureSelect Post-Capture Primer Mix | Not available. | |
| | | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not available. | |
| Vapor pressure | | : | End Repair-A Tailing Enzyme Mix | Not available. |
| | | | End Repair-A Tailing Buffer | Not available. |
| | | | T4 DNA Ligase | Not available. |
| | | Ligation Buffer | Not available. | |
| | | Adaptor Oligo Mix | Not available. | |
| | | Forward Primer | Not available. | |
| | | 100 mM dNTP Mix (25 mM each dNTP) | Not available. | |
| | | Herculase II Fusion DNA Polymerase | Not available. | |
| | | 5X Herculase II Reaction Buffer | Not available. | |
| | | SureSelect Binding Buffer | Not available. | |
| | | | | |
| | | | | |

Section 9. Physical and chemical properties

| | | |
|-------------------------|--|----------------|
| | SureSelect Wash Buffer 1 | Not available. |
| | SureSelect Wash Buffer 2 | Not available. |
| | SureSelect XT HS and XT Low Input Blocker Mix | Not available. |
| | SureSelect Fast Hybridization Buffer | Not available. |
| | SureSelect RNase Block | Not available. |
| | SureSelect Post-Capture Primer Mix | Not available. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not available. |
| Vapor density | : End Repair-A Tailing Enzyme Mix | Not available. |
| | End Repair-A Tailing Buffer | Not available. |
| | T4 DNA Ligase | Not available. |
| | Ligation Buffer | Not available. |
| | Adaptor Oligo Mix | Not available. |
| | Forward Primer | Not available. |
| | 100 mM dNTP Mix (25 mM each dNTP) | Not available. |
| | Herculase II Fusion DNA Polymerase | Not available. |
| | 5X Herculase II Reaction Buffer | Not available. |
| | SureSelect Binding Buffer | Not available. |
| | SureSelect Wash Buffer 1 | Not available. |
| | SureSelect Wash Buffer 2 | Not available. |
| | SureSelect XT HS and XT Low Input Blocker Mix | Not available. |
| | SureSelect Fast Hybridization Buffer | Not available. |
| | SureSelect RNase Block | Not available. |
| | SureSelect Post-Capture Primer Mix | Not available. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not available. |
| Relative density | : End Repair-A Tailing Enzyme Mix | Not available. |
| | End Repair-A Tailing Buffer | Not available. |
| | T4 DNA Ligase | Not available. |
| | Ligation Buffer | Not available. |
| | Adaptor Oligo Mix | Not available. |
| | Forward Primer | Not available. |
| | 100 mM dNTP Mix (25 mM each dNTP) | Not available. |
| | Herculase II Fusion DNA Polymerase | Not available. |
| | 5X Herculase II Reaction Buffer | Not available. |
| | SureSelect Binding Buffer | Not available. |
| | SureSelect Wash Buffer 1 | Not available. |
| | SureSelect Wash Buffer 2 | Not available. |
| | SureSelect XT HS and XT Low Input Blocker Mix | Not available. |
| | SureSelect Fast Hybridization Buffer | Not available. |
| | SureSelect RNase Block | Not available. |
| | SureSelect Post-Capture Primer Mix | Not available. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not available. |

Section 9. Physical and chemical properties

| | | |
|---|--|--|
| Solubility | : End Repair-A Tailing Enzyme Mix | Easily soluble in the following materials: cold water and hot water. |
| | End Repair-A Tailing Buffer | Easily soluble in the following materials: cold water and hot water. |
| | T4 DNA Ligase | Easily soluble in the following materials: cold water and hot water. |
| | Ligation Buffer | Soluble in the following materials: cold water and hot water. |
| | Adaptor Oligo Mix | Easily soluble in the following materials: cold water and hot water. |
| | Forward Primer | Easily soluble in the following materials: cold water and hot water. |
| | 100 mM dNTP Mix (25 mM each dNTP) | Easily soluble in the following materials: cold water and hot water. |
| | Herculase II Fusion DNA Polymerase | Soluble in the following materials: cold water and hot water. |
| | 5X Herculase II Reaction Buffer | Easily soluble in the following materials: cold water and hot water. |
| | SureSelect Binding Buffer | Easily soluble in the following materials: cold water and hot water. |
| | SureSelect Wash Buffer 1 | Easily soluble in the following materials: cold water and hot water. |
| | SureSelect Wash Buffer 2 | Easily soluble in the following materials: cold water and hot water. |
| | SureSelect XT HS and XT Low Input Blocker Mix | Easily soluble in the following materials: cold water and hot water. |
| | SureSelect Fast Hybridization Buffer | Easily soluble in the following materials: cold water and hot water. |
| | SureSelect RNase Block | Soluble in the following materials: cold water and hot water. |
| | SureSelect Post-Capture Primer Mix | Easily soluble in the following materials: cold water and hot water. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Easily soluble in the following materials: cold water and hot water. |
| Partition coefficient: n-octanol/water | : End Repair-A Tailing Enzyme Mix | Not available. |
| | End Repair-A Tailing Buffer | Not available. |
| | T4 DNA Ligase | Not available. |
| | Ligation Buffer | Not available. |
| | Adaptor Oligo Mix | Not available. |
| | Forward Primer | Not available. |
| | 100 mM dNTP Mix (25 mM each dNTP) | Not available. |
| | Herculase II Fusion DNA Polymerase | Not available. |
| | 5X Herculase II Reaction Buffer | Not available. |
| | SureSelect Binding Buffer | Not available. |
| | SureSelect Wash Buffer 1 | Not available. |
| | SureSelect Wash Buffer 2 | Not available. |
| | SureSelect XT HS and XT Low Input Blocker Mix | Not available. |
| | SureSelect Fast Hybridization Buffer | Not available. |
| | SureSelect RNase Block | Not available. |
| | SureSelect Post-Capture Primer Mix | Not available. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not available. |

Section 9. Physical and chemical properties

| | | | | |
|----------------------------------|----------------------------------|--|---------------------------------|----------------|
| Auto-ignition temperature | : | End Repair-A Tailing Enzyme Mix | Not available. | |
| | | End Repair-A Tailing Buffer | Not available. | |
| | | T4 DNA Ligase | Not available. | |
| | | Ligation Buffer | Not available. | |
| | | Adaptor Oligo Mix | Not available. | |
| | | Forward Primer | Not available. | |
| | | 100 mM dNTP Mix (25 mM each dNTP) | Not available. | |
| | | Herculase II Fusion DNA Polymerase | Not available. | |
| | | 5X Herculase II Reaction Buffer | Not available. | |
| | | SureSelect Binding Buffer | Not available. | |
| | | SureSelect Wash Buffer 1 | Not available. | |
| | | SureSelect Wash Buffer 2 | Not available. | |
| | | SureSelect XT HS and XT Low Input Blocker Mix | Not available. | |
| | | SureSelect Fast Hybridization Buffer | Not available. | |
| | | SureSelect RNase Block | Not available. | |
| | | SureSelect Post-Capture Primer Mix | Not available. | |
| | | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not available. | |
| | Decomposition temperature | : | End Repair-A Tailing Enzyme Mix | Not available. |
| | | | End Repair-A Tailing Buffer | Not available. |
| | | | T4 DNA Ligase | Not available. |
| | | Ligation Buffer | Not available. | |
| | | Adaptor Oligo Mix | Not available. | |
| | | Forward Primer | Not available. | |
| | | 100 mM dNTP Mix (25 mM each dNTP) | Not available. | |
| | | Herculase II Fusion DNA Polymerase | Not available. | |
| | | 5X Herculase II Reaction Buffer | Not available. | |
| | | SureSelect Binding Buffer | Not available. | |
| | | SureSelect Wash Buffer 1 | Not available. | |
| | | SureSelect Wash Buffer 2 | Not available. | |
| | | SureSelect XT HS and XT Low Input Blocker Mix | Not available. | |
| | | SureSelect Fast Hybridization Buffer | Not available. | |
| | | SureSelect RNase Block | Not available. | |
| | | SureSelect Post-Capture Primer Mix | Not available. | |
| | | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not available. | |
| Viscosity | | : | End Repair-A Tailing Enzyme Mix | Not available. |
| | | | End Repair-A Tailing Buffer | Not available. |
| | | | T4 DNA Ligase | Not available. |
| | | Ligation Buffer | Not available. | |
| | | Adaptor Oligo Mix | Not available. | |
| | | Forward Primer | Not available. | |
| | | 100 mM dNTP Mix (25 mM each dNTP) | Not available. | |
| | | Herculase II Fusion DNA Polymerase | Not available. | |
| | | 5X Herculase II Reaction Buffer | Not available. | |
| | | SureSelect Binding Buffer | Not available. | |
| | | | | |

Section 9. Physical and chemical properties

| | |
|--|----------------|
| SureSelect Wash Buffer 1 | Not available. |
| SureSelect Wash Buffer 2 | Not available. |
| SureSelect XT HS and XT Low Input Blocker Mix | Not available. |
| SureSelect Fast Hybridization Buffer | Not available. |
| SureSelect RNase Block | Not available. |
| SureSelect Post-Capture Primer Mix | Not available. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not available. |

Section 10. Stability and reactivity

10.1 Reactivity

| | |
|--|--|
| : End Repair-A Tailing Enzyme Mix | No specific test data related to reactivity available for this product or its ingredients. |
| End Repair-A Tailing Buffer | No specific test data related to reactivity available for this product or its ingredients. |
| T4 DNA Ligase | No specific test data related to reactivity available for this product or its ingredients. |
| Ligation Buffer | No specific test data related to reactivity available for this product or its ingredients. |
| Adaptor Oligo Mix | No specific test data related to reactivity available for this product or its ingredients. |
| Forward Primer | No specific test data related to reactivity available for this product or its ingredients. |
| 100 mM dNTP Mix (25 mM each dNTP) | No specific test data related to reactivity available for this product or its ingredients. |
| Herculase II Fusion DNA Polymerase | No specific test data related to reactivity available for this product or its ingredients. |
| 5X Herculase II Reaction Buffer | No specific test data related to reactivity available for this product or its ingredients. |
| SureSelect Binding Buffer | No specific test data related to reactivity available for this product or its ingredients. |
| SureSelect Wash Buffer 1 | No specific test data related to reactivity available for this product or its ingredients. |
| SureSelect Wash Buffer 2 | No specific test data related to reactivity available for this product or its ingredients. |
| SureSelect XT HS and XT Low Input Blocker Mix | No specific test data related to reactivity available for this product or its ingredients. |
| SureSelect Fast Hybridization Buffer | No specific test data related to reactivity available for this product or its ingredients. |
| SureSelect RNase Block | No specific test data related to reactivity available for this product or its ingredients. |
| SureSelect Post-Capture Primer Mix | No specific test data related to reactivity available for this product or its ingredients. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No specific test data related to reactivity available for this product or its ingredients. |

10.2 Chemical stability

| | |
|------------------------------------|------------------------|
| : End Repair-A Tailing Enzyme Mix | The product is stable. |
| End Repair-A Tailing Buffer | The product is stable. |
| T4 DNA Ligase | The product is stable. |
| Ligation Buffer | The product is stable. |
| Adaptor Oligo Mix | The product is stable. |
| Forward Primer | The product is stable. |
| 100 mM dNTP Mix (25 mM each dNTP) | The product is stable. |
| Herculase II Fusion DNA Polymerase | The product is stable. |

Section 10. Stability and reactivity

| | |
|--|------------------------|
| 5X Herculase II Reaction Buffer | The product is stable. |
| SureSelect Binding Buffer | The product is stable. |
| SureSelect Wash Buffer 1 | The product is stable. |
| SureSelect Wash Buffer 2 | The product is stable. |
| SureSelect XT HS and XT Low Input Blocker Mix | The product is stable. |
| SureSelect Fast Hybridization Buffer | The product is stable. |
| SureSelect RNase Block | The product is stable. |
| SureSelect Post-Capture Primer Mix | The product is stable. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | The product is stable. |

10.3 Possibility of hazardous reactions

| | |
|--|---|
| : End Repair-A Tailing Enzyme Mix | Under normal conditions of storage and use, hazardous reactions will not occur. |
| End Repair-A Tailing Buffer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| T4 DNA Ligase | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Ligation Buffer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Adaptor Oligo Mix | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Forward Primer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 100 mM dNTP Mix (25 mM each dNTP) | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Herculase II Fusion DNA Polymerase | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 5X Herculase II Reaction Buffer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect Binding Buffer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect Wash Buffer 1 | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect Wash Buffer 2 | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect XT HS and XT Low Input Blocker Mix | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect Fast Hybridization Buffer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect RNase Block | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect Post-Capture Primer Mix | Under normal conditions of storage and use, hazardous reactions will not occur. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Under normal conditions of storage and use, hazardous reactions will not occur. |

10.4 Conditions to avoid

| | |
|-----------------------------------|-------------------|
| : End Repair-A Tailing Enzyme Mix | No specific data. |
| End Repair-A Tailing Buffer | No specific data. |
| T4 DNA Ligase | No specific data. |
| Ligation Buffer | No specific data. |
| Adaptor Oligo Mix | No specific data. |
| Forward Primer | No specific data. |
| 100 mM dNTP Mix (25 mM each dNTP) | No specific data. |
| Herculase II Fusion DNA | No specific data. |

Section 10. Stability and reactivity

| | | |
|--|---|--|
| Polymerase | | |
| 5X Herculase II Reaction Buffer | | No specific data. |
| SureSelect Binding Buffer | | No specific data. |
| SureSelect Wash Buffer 1 | | No specific data. |
| SureSelect Wash Buffer 2 | | No specific data. |
| SureSelect XT HS and XT Low Input Blocker Mix | | No specific data. |
| SureSelect Fast Hybridization Buffer | | No specific data. |
| SureSelect RNase Block | | No specific data. |
| SureSelect Post-Capture Primer Mix | | No specific data. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | | No specific data. |
| 10.5 Incompatible materials | : | |
| End Repair-A Tailing Enzyme Mix | | May react or be incompatible with oxidizing materials. |
| End Repair-A Tailing Buffer | | May react or be incompatible with oxidizing materials. |
| T4 DNA Ligase | | May react or be incompatible with oxidizing materials. |
| Ligation Buffer | | May react or be incompatible with oxidizing materials. |
| Adaptor Oligo Mix | | May react or be incompatible with oxidizing materials. |
| Forward Primer | | May react or be incompatible with oxidizing materials. |
| 100 mM dNTP Mix (25 mM each dNTP) | | May react or be incompatible with oxidizing materials. |
| Herculase II Fusion DNA Polymerase | | May react or be incompatible with oxidizing materials. |
| 5X Herculase II Reaction Buffer | | May react or be incompatible with oxidizing materials. |
| SureSelect Binding Buffer | | May react or be incompatible with oxidizing materials. |
| SureSelect Wash Buffer 1 | | May react or be incompatible with oxidizing materials. |
| SureSelect Wash Buffer 2 | | May react or be incompatible with oxidizing materials. |
| SureSelect XT HS and XT Low Input Blocker Mix | | May react or be incompatible with oxidizing materials. |
| SureSelect Fast Hybridization Buffer | | May react or be incompatible with oxidizing materials. |
| SureSelect RNase Block | | May react or be incompatible with oxidizing materials. |
| SureSelect Post-Capture Primer Mix | | May react or be incompatible with oxidizing materials. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | | May react or be incompatible with oxidizing materials. |
| 10.6 Hazardous decomposition products | : | |
| End Repair-A Tailing Enzyme Mix | | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| End Repair-A Tailing Buffer | | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| T4 DNA Ligase | | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

Section 10. Stability and reactivity

| | |
|--|---|
| Ligation Buffer | produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Adaptor Oligo Mix | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Forward Primer | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| 100 mM dNTP Mix (25 mM each dNTP) | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Herculase II Fusion DNA Polymerase | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| 5X Herculase II Reaction Buffer | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| SureSelect Binding Buffer | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| SureSelect Wash Buffer 1 | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| SureSelect Wash Buffer 2 | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| SureSelect XT HS and XT Low Input Blocker Mix | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| SureSelect Fast Hybridization Buffer | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| SureSelect RNase Block | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| SureSelect Post-Capture Primer Mix | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|-----------|---------|-------------|----------|
| End Repair-A Tailing Enzyme Mix Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |
| End Repair-A Tailing Buffer Potassium chloride | LD50 Oral | Rat | 2600 mg/kg | - |
| T4 DNA Ligase Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |

Section 11. Toxicological information

| | | | | |
|---|--------------------------|------------|---------------------------|--------|
| Ligation Buffer Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |
| Herculase II Fusion DNA Polymerase Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |
| 5X Herculase II Reaction Buffer Trometamol | LD50 Dermal LD50 Oral | Rat Rat | >5000 mg/kg 5000 mg/kg | - - |
| Ammonium sulphate | LD50 Oral | Rat | 2840 mg/kg | - |
| Hexadecan-1-ol, ethoxylated | LD50 Oral | Rat | 2500 mg/kg | - |
| SureSelect Binding Buffer Sodium chloride | LD50 Oral | Rat | 3000 mg/kg | - |
| SureSelect RNase Block Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|--|----------------------|---------|-------|-------------------------|-------------|
| End Repair-A Tailing Enzyme Mix Glycerol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| End Repair-A Tailing Buffer Potassium chloride | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| T4 DNA Ligase Glycerol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| Ligation Buffer Polyethylene glycol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Eyes - Mild irritant | Rabbit | - | 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 500 milligrams | - |
| Glycerol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| Herculase II Fusion DNA Polymerase Glycerol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |

Section 11. Toxicological information

| | | | | | |
|--|--------------------------|--------|---|-------------------------|---|
| 5X Herculase II Reaction Buffer Trometamol | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 25 Percent | - |
| | Skin - Severe irritant | Rabbit | - | 500 milligrams | - |
| SureSelect Binding Buffer Sodium chloride | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 10 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| SureSelect RNase Block Glycerol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|--|------------|-------------------|------------------------------|
| End Repair-A Tailing Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride | Category 3 | Not applicable. | Respiratory tract irritation |
| Ligation Buffer Polyethylene glycol | Category 3 | Not applicable. | Respiratory tract irritation |
| 5X Herculase II Reaction Buffer Trometamol | Category 3 | Not applicable. | Respiratory tract irritation |
| Hexadecan-1-ol, ethoxylated | Category 3 | Not applicable. | Respiratory tract irritation |
| SureSelect Fast Hybridization Buffer 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride | Category 3 | Not applicable. | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

Not available.

Section 11. Toxicological information

Aspiration hazard

Not available.

Information on the likely routes of exposure

| | |
|--|--|
| End Repair-A Tailing Enzyme Mix | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| End Repair-A Tailing Buffer | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| T4 DNA Ligase | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| Ligation Buffer | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| Adaptor Oligo Mix | Not available. |
| Forward Primer | Not available. |
| 100 mM dNTP Mix (25 mM each dNTP) | Not available. |
| Herculase II Fusion DNA Polymerase | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| 5X Herculase II Reaction Buffer | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| SureSelect Binding Buffer | Not available. |
| SureSelect Wash Buffer 1 | Not available. |
| SureSelect Wash Buffer 2 | Not available. |
| SureSelect XT HS and XT Low Input Blocker Mix | Not available. |
| SureSelect Fast Hybridization Buffer | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| SureSelect RNase Block | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| SureSelect Post-Capture Primer Mix | Not available. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not available. |

Potential acute health effects

Eye contact

| | |
|--|---|
| End Repair-A Tailing Enzyme Mix | Causes eye irritation. |
| End Repair-A Tailing Buffer | No known significant effects or critical hazards. |
| T4 DNA Ligase | Causes eye irritation. |
| Ligation Buffer | Causes eye irritation. |
| Adaptor Oligo Mix | No known significant effects or critical hazards. |
| Forward Primer | No known significant effects or critical hazards. |
| 100 mM dNTP Mix (25 mM each dNTP) | No known significant effects or critical hazards. |
| Herculase II Fusion DNA Polymerase | Causes eye irritation. |
| 5X Herculase II Reaction Buffer | No known significant effects or critical hazards. |
| SureSelect Binding Buffer | No known significant effects or critical hazards. |
| SureSelect Wash Buffer 1 | No known significant effects or critical hazards. |
| SureSelect Wash Buffer 2 | No known significant effects or critical hazards. |
| SureSelect XT HS and XT Low Input Blocker Mix | No known significant effects or critical hazards. |
| SureSelect Fast Hybridization Buffer | No known significant effects or critical hazards. |
| SureSelect RNase Block | Causes eye irritation. |
| SureSelect Post-Capture Primer Mix | No known significant effects or critical hazards. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No known significant effects or critical hazards. |

Section 11. Toxicological information

| | | |
|---------------------|---|---|
| Inhalation | <ul style="list-style-type: none"> : End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer Mix SureSelect XT Low Input Index Bulk Set 2 A01-H12 | <ul style="list-style-type: none"> No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. May cause respiratory 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. |
| Skin contact | <ul style="list-style-type: none"> : End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer SureSelect Binding Buffer SureSelect Wash Buffer 1 SureSelect Wash Buffer 2 SureSelect XT HS and XT Low Input Blocker Mix SureSelect Fast Hybridization Buffer SureSelect RNase Block SureSelect Post-Capture Primer Mix SureSelect XT Low Input Index Bulk Set 2 A01-H12 | <ul style="list-style-type: none"> No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. 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 | <ul style="list-style-type: none"> : End Repair-A Tailing Enzyme Mix End Repair-A Tailing Buffer T4 DNA Ligase Ligation Buffer Adaptor Oligo Mix Forward Primer 100 mM dNTP Mix (25 mM each dNTP) Herculase II Fusion DNA Polymerase 5X Herculase II Reaction Buffer SureSelect Binding Buffer SureSelect Wash Buffer 1 | <ul style="list-style-type: none"> No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |

Section 11. Toxicological information

| | |
|--|---|
| SureSelect Wash Buffer 2 | No known significant effects or critical hazards. |
| SureSelect XT HS and XT Low Input Blocker Mix | No known significant effects or critical hazards. |
| SureSelect Fast Hybridization Buffer | No known significant effects or critical hazards. |
| SureSelect RNase Block | No known significant effects or critical hazards. |
| SureSelect Post-Capture Primer Mix | No known significant effects or critical hazards. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No known significant effects or critical hazards. |

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

| | |
|--|---|
| : End Repair-A Tailing Enzyme Mix | Adverse symptoms may include the following: irritation watering redness |
| End Repair-A Tailing Buffer | No specific data. |
| T4 DNA Ligase | Adverse symptoms may include the following: irritation watering redness |
| Ligation Buffer | Adverse symptoms may include the following: irritation watering redness |
| Adaptor Oligo Mix | No specific data. |
| Forward Primer | No specific data. |
| 100 mM dNTP Mix (25 mM each dNTP) | No specific data. |
| Herculase II Fusion DNA Polymerase | Adverse symptoms may include the following: irritation watering redness |
| 5X Herculase II Reaction Buffer | No specific data. |
| SureSelect Binding Buffer | No specific data. |
| SureSelect Wash Buffer 1 | No specific data. |
| SureSelect Wash Buffer 2 | No specific data. |
| SureSelect XT HS and XT Low Input Blocker Mix | No specific data. |
| SureSelect Fast Hybridization Buffer | No specific data. |
| SureSelect RNase Block | Adverse symptoms may include the following: irritation watering redness |
| SureSelect Post-Capture Primer Mix | No specific data. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No specific data. |
| : End Repair-A Tailing Enzyme Mix | No specific data. |
| End Repair-A Tailing Buffer | No specific data. |
| T4 DNA Ligase | No specific data. |
| Ligation Buffer | Adverse symptoms may include the following: respiratory tract irritation coughing |
| Adaptor Oligo Mix | No specific data. |
| Forward Primer | No specific data. |

Inhalation

Section 11. Toxicological information

| | | |
|---------------------|--|-------------------|
| | 100 mM dNTP Mix (25 mM each dNTP) | No specific data. |
| | Herculase II Fusion DNA Polymerase | No specific data. |
| | 5X Herculase II Reaction Buffer | No specific data. |
| | SureSelect Binding Buffer | No specific data. |
| | SureSelect Wash Buffer 1 | No specific data. |
| | SureSelect Wash Buffer 2 | No specific data. |
| | SureSelect XT HS and XT Low Input Blocker Mix | No specific data. |
| | SureSelect Fast Hybridization Buffer | No specific data. |
| | SureSelect RNase Block | No specific data. |
| | SureSelect Post-Capture Primer Mix | No specific data. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No specific data. |
| Skin contact | : End Repair-A Tailing Enzyme Mix | No specific data. |
| | End Repair-A Tailing Buffer | No specific data. |
| | T4 DNA Ligase | No specific data. |
| | Ligation Buffer | No specific data. |
| | Adaptor Oligo Mix | No specific data. |
| | Forward Primer | No specific data. |
| | 100 mM dNTP Mix (25 mM each dNTP) | No specific data. |
| | Herculase II Fusion DNA Polymerase | No specific data. |
| | 5X Herculase II Reaction Buffer | No specific data. |
| | SureSelect Binding Buffer | No specific data. |
| | SureSelect Wash Buffer 1 | No specific data. |
| | SureSelect Wash Buffer 2 | No specific data. |
| | SureSelect XT HS and XT Low Input Blocker Mix | No specific data. |
| | SureSelect Fast Hybridization Buffer | No specific data. |
| | SureSelect RNase Block | No specific data. |
| | SureSelect Post-Capture Primer Mix | No specific data. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No specific data. |
| Ingestion | : End Repair-A Tailing Enzyme Mix | No specific data. |
| | End Repair-A Tailing Buffer | No specific data. |
| | T4 DNA Ligase | No specific data. |
| | Ligation Buffer | No specific data. |
| | Adaptor Oligo Mix | No specific data. |
| | Forward Primer | No specific data. |
| | 100 mM dNTP Mix (25 mM each dNTP) | No specific data. |
| | Herculase II Fusion DNA Polymerase | No specific data. |
| | 5X Herculase II Reaction Buffer | No specific data. |
| | SureSelect Binding Buffer | No specific data. |
| | SureSelect Wash Buffer 1 | No specific data. |
| | SureSelect Wash Buffer 2 | No specific data. |
| | SureSelect XT HS and XT Low Input Blocker Mix | No specific data. |
| | SureSelect Fast Hybridization Buffer | No specific data. |
| | SureSelect RNase Block | No specific data. |

Section 11. Toxicological information

| | |
|--|-------------------|
| SureSelect Post-Capture Primer Mix | No specific data. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No specific data. |

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

| | | |
|----------------|--|---|
| General | : End Repair-A Tailing Enzyme Mix | No known significant effects or critical hazards. |
| | End Repair-A Tailing Buffer | No known significant effects or critical hazards. |
| | T4 DNA Ligase | No known significant effects or critical hazards. |
| | Ligation Buffer | No known significant effects or critical hazards. |
| | Adaptor Oligo Mix | No known significant effects or critical hazards. |
| | Forward Primer | No known significant effects or critical hazards. |
| | 100 mM dNTP Mix (25 mM each dNTP) | No known significant effects or critical hazards. |
| | Herculase II Fusion DNA Polymerase | No known significant effects or critical hazards. |
| | 5X Herculase II Reaction Buffer | No known significant effects or critical hazards. |
| | SureSelect Binding Buffer | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 1 | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 2 | No known significant effects or critical hazards. |
| | SureSelect XT HS and XT Low Input Blocker Mix | No known significant effects or critical hazards. |
| | SureSelect Fast Hybridization Buffer | No known significant effects or critical hazards. |
| | SureSelect RNase Block | No known significant effects or critical hazards. |
| | SureSelect Post-Capture Primer Mix | No known significant effects or critical hazards. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No known significant effects or critical hazards. |

| | | |
|------------------------|---|---|
| Carcinogenicity | : End Repair-A Tailing Enzyme Mix | No known significant effects or critical hazards. |
| | End Repair-A Tailing Buffer | No known significant effects or critical hazards. |
| | T4 DNA Ligase | No known significant effects or critical hazards. |
| | Ligation Buffer | No known significant effects or critical hazards. |
| | Adaptor Oligo Mix | No known significant effects or critical hazards. |
| | Forward Primer | No known significant effects or critical hazards. |
| | 100 mM dNTP Mix (25 mM each dNTP) | No known significant effects or critical hazards. |
| | Herculase II Fusion DNA Polymerase | No known significant effects or critical hazards. |
| | 5X Herculase II Reaction Buffer | No known significant effects or critical hazards. |
| | SureSelect Binding Buffer | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 1 | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 2 | No known significant effects or critical hazards. |
| | SureSelect XT HS and XT Low Input Blocker Mix | No known significant effects or critical hazards. |
| | SureSelect Fast Hybridization Buffer | No known significant effects or critical hazards. |

Section 11. Toxicological information

| | | |
|------------------------------|--|---|
| | SureSelect RNase Block | No known significant effects or critical hazards. |
| | SureSelect Post-Capture Primer Mix | No known significant effects or critical hazards. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No known significant effects or critical hazards. |
| Mutagenicity | : End Repair-A Tailing Enzyme Mix | No known significant effects or critical hazards. |
| | End Repair-A Tailing Buffer | No known significant effects or critical hazards. |
| | T4 DNA Ligase | No known significant effects or critical hazards. |
| | Ligation Buffer | No known significant effects or critical hazards. |
| | Adaptor Oligo Mix | No known significant effects or critical hazards. |
| | Forward Primer | No known significant effects or critical hazards. |
| | 100 mM dNTP Mix (25 mM each dNTP) | No known significant effects or critical hazards. |
| | Herculase II Fusion DNA Polymerase | No known significant effects or critical hazards. |
| | 5X Herculase II Reaction Buffer | No known significant effects or critical hazards. |
| | SureSelect Binding Buffer | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 1 | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 2 | No known significant effects or critical hazards. |
| | SureSelect XT HS and XT Low Input Blocker Mix | No known significant effects or critical hazards. |
| | SureSelect Fast Hybridization Buffer | No known significant effects or critical hazards. |
| | SureSelect RNase Block | No known significant effects or critical hazards. |
| | SureSelect Post-Capture Primer Mix | No known significant effects or critical hazards. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No known significant effects or critical hazards. |
| Teratogenicity | : End Repair-A Tailing Enzyme Mix | No known significant effects or critical hazards. |
| | End Repair-A Tailing Buffer | No known significant effects or critical hazards. |
| | T4 DNA Ligase | No known significant effects or critical hazards. |
| | Ligation Buffer | No known significant effects or critical hazards. |
| | Adaptor Oligo Mix | No known significant effects or critical hazards. |
| | Forward Primer | No known significant effects or critical hazards. |
| | 100 mM dNTP Mix (25 mM each dNTP) | No known significant effects or critical hazards. |
| | Herculase II Fusion DNA Polymerase | No known significant effects or critical hazards. |
| | 5X Herculase II Reaction Buffer | No known significant effects or critical hazards. |
| | SureSelect Binding Buffer | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 1 | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 2 | No known significant effects or critical hazards. |
| | SureSelect XT HS and XT Low Input Blocker Mix | No known significant effects or critical hazards. |
| | SureSelect Fast Hybridization Buffer | No known significant effects or critical hazards. |
| | SureSelect RNase Block | No known significant effects or critical hazards. |
| | SureSelect Post-Capture Primer Mix | No known significant effects or critical hazards. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No known significant effects or critical hazards. |
| Developmental effects | : End Repair-A Tailing Enzyme Mix | No known significant effects or critical hazards. |
| | End Repair-A Tailing Buffer | No known significant effects or critical hazards. |
| | T4 DNA Ligase | No known significant effects or critical hazards. |
| | Ligation Buffer | No known significant effects or critical hazards. |
| | Adaptor Oligo Mix | No known significant effects or critical hazards. |
| | Forward Primer | No known significant effects or critical hazards. |
| | 100 mM dNTP Mix (25 mM each | No known significant effects or critical hazards. |

Section 11. Toxicological information

| | | |
|--------------------------|--|---|
| | dNTP) | |
| | Herculase II Fusion DNA Polymerase | No known significant effects or critical hazards. |
| | 5X Herculase II Reaction Buffer | No known significant effects or critical hazards. |
| | SureSelect Binding Buffer | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 1 | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 2 | No known significant effects or critical hazards. |
| | SureSelect XT HS and XT Low Input Blocker Mix | No known significant effects or critical hazards. |
| | SureSelect Fast Hybridization Buffer | No known significant effects or critical hazards. |
| | SureSelect RNase Block | No known significant effects or critical hazards. |
| | SureSelect Post-Capture Primer Mix | No known significant effects or critical hazards. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | No known significant effects or critical hazards. |
| Fertility effects | : End Repair-A Tailing Enzyme Mix | No known significant effects or critical hazards. |
| | End Repair-A Tailing Buffer | No known significant effects or critical hazards. |
| | T4 DNA Ligase | No known significant effects or critical hazards. |
| | Ligation Buffer | No known significant effects or critical hazards. |
| | Adaptor Oligo Mix | No known significant effects or critical hazards. |
| | Forward Primer | No known significant effects or critical hazards. |
| | 100 mM dNTP Mix (25 mM each dNTP) | No known significant effects or critical hazards. |
| | Herculase II Fusion DNA Polymerase | No known significant effects or critical hazards. |
| | 5X Herculase II Reaction Buffer | No known significant effects or critical hazards. |
| | SureSelect Binding Buffer | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 1 | No known significant effects or critical hazards. |
| | SureSelect Wash Buffer 2 | No known significant effects or critical hazards. |
| | SureSelect XT HS and XT Low Input Blocker Mix | No known significant effects or critical hazards. |
| | SureSelect Fast Hybridization Buffer | No known significant effects or critical hazards. |
| | SureSelect RNase Block | No known significant effects or critical hazards. |
| | SureSelect Post-Capture Primer Mix | No known significant effects or critical hazards. |
| | SureSelect XT Low Input Index Bulk Set 2 A01-H12 | 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 (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|------------------|----------------|--------------------------|----------------------------|-------------------------------------|
| End Repair-A Tailing Enzyme Mix Glycerol | 12600 | N/A | N/A | N/A | N/A |
| End Repair-A Tailing Buffer End Repair-A Tailing Buffer Potassium chloride | 159509.2 2600 | N/A N/A | N/A N/A | N/A N/A | N/A N/A |
| T4 DNA Ligase Glycerol | 12600 | N/A | N/A | N/A | N/A |
| Ligation Buffer | | | | | |

Section 11. Toxicological information

| | | | | | |
|---|---------|-----|-----|-----|-----|
| Polyethylene glycol | 28000 | N/A | N/A | N/A | N/A |
| Glycerol | 12600 | N/A | N/A | N/A | N/A |
| Herculase II Fusion DNA Polymerase | | | | | |
| Glycerol | 12600 | N/A | N/A | N/A | N/A |
| 5X Herculase II Reaction Buffer | | | | | |
| 5X Herculase II Reaction Buffer | 81278.2 | N/A | N/A | N/A | N/A |
| Trometamol | 5000 | N/A | N/A | N/A | N/A |
| Ammonium sulphate | 2840 | N/A | N/A | N/A | N/A |
| Hexadecan-1-ol, ethoxylated | 2500 | N/A | N/A | N/A | N/A |
| SureSelect Binding Buffer | | | | | |
| SureSelect Binding Buffer | 51369.9 | N/A | N/A | N/A | N/A |
| Sodium chloride | 3000 | N/A | N/A | N/A | N/A |
| SureSelect RNase Block | | | | | |
| Glycerol | 12600 | N/A | N/A | N/A | N/A |

Section 12. Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|----------------------|
| End Repair-A Tailing Enzyme Mix | | | |
| Glycerol | Acute LC50 54000 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| End Repair-A Tailing Buffer | | | |
| Potassium chloride | Acute EC50 1337000 µg/l Fresh water Acute EC50 9.24 g/L Fresh water | Algae - Navicula seminulum Algae - Desmodesmus subspicatus | 96 hours 72 hours |
| | Acute EC50 141.46 mg/l Fresh water Acute LC50 12.92 mg/l Fresh water | Daphnia - Daphnia magna Crustaceans - Pseudosida ramosa - Neonate | 48 hours 48 hours |
| | Acute LC50 880 mg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| T4 DNA Ligase | | | |
| Glycerol | Acute LC50 54000 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| Ligation Buffer | | | |
| Polyethylene glycol | Acute LC50 >1000000 µg/l Fresh water | Fish - Salmo salar - Parr | 96 hours |
| Glycerol | Acute LC50 54000 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| Herculase II Fusion DNA Polymerase | | | |
| Glycerol | Acute LC50 54000 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| 5X Herculase II Reaction Buffer | | | |
| Trometamol | Acute EC50 >980 mg/l Fresh water Acute NOEC 520 mg/l Fresh water | Daphnia Daphnia | 48 hours 48 hours |
| Ammonium sulphate | Acute LC50 2.6 mg/l Fresh water Acute LC50 14000 µg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Young Daphnia - Daphnia magna - Young | 48 hours 48 hours |

Section 12. Ecological information

| | | | |
|---|--|---|----------|
| Hexadecan-1-ol, ethoxylated | Acute LC50 68 µg/l Fresh water | Fish - Oncorhynchus gorboscha - Alevin | 96 hours |
| | Chronic NOEC 7.5 mg/l Marine water | Algae - Phaeodactylum tricornutum - Exponential growth phase | 96 hours |
| SureSelect Binding Buffer Sodium chloride | Chronic NOEC 143 µg/l Marine water | Fish - Salmo salar - Post-smolt | 5 weeks |
| | Acute LC50 330000 to 1000000 µg/l Marine water | Crustaceans - Crangon crangon - Adult | 48 hours |
| | Acute EC50 4.74 g/L Fresh water | Algae - Chlamydomonas reinhardtii | 96 hours |
| | Acute EC50 519.6 mg/l Fresh water | Crustaceans - Cypris subglobosa | 48 hours |
| | Acute EC50 402.6 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute IC50 6.87 g/L Fresh water | Aquatic plants - Lemna minor | 96 hours |
| | Acute LC50 1000000 µg/l Fresh water | Fish - Morone saxatilis - Larvae | 96 hours |
| | Chronic LC10 781 mg/l Fresh water | Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling) | 3 weeks |
| | Chronic NOEC 6 g/L Fresh water | Aquatic plants - Lemna minor | 96 hours |
| | Chronic NOEC 0.314 g/L Fresh water | Daphnia - Daphnia pulex | 21 days |
| Chronic NOEC 100 mg/l Fresh water | Fish - Gambusia holbrooki - Adult | 8 weeks | |
| SureSelect RNase Block Glycerol | Acute LC50 54000 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---|--|----------------|------|----------|
| End Repair-A Tailing Enzyme Mix Glycerol | 301D Ready Biodegradability - Closed Bottle Test | 93 % - 30 days | - | - |
| T4 DNA Ligase Glycerol | 301D Ready Biodegradability - Closed Bottle Test | 93 % - 30 days | - | - |
| Ligation Buffer Glycerol | 301D Ready Biodegradability - Closed Bottle Test | 93 % - 30 days | - | - |
| Herculase II Fusion DNA Polymerase Glycerol | 301D Ready Biodegradability - Closed Bottle Test | 93 % - 30 days | - | - |
| SureSelect RNase Block Glycerol | 301D Ready Biodegradability - | 93 % - 30 days | - | - |

Section 12. Ecological information

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| End Repair-A Tailing Buffer Potassium chloride | - | - | Readily |
| 5X Herculase II Reaction Buffer Ammonium sulphate | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|--|--------------------|-----|-----------|
| End Repair-A Tailing Enzyme Mix Glycerol | -1.76 | - | low |
| End Repair-A Tailing Buffer Potassium chloride | -0.46 | - | low |
| T4 DNA Ligase Glycerol | -1.76 | - | low |
| Ligation Buffer Polyethylene glycol | - | 3.2 | low |
| Glycerol | -1.76 | - | low |
| Herculase II Fusion DNA Polymerase Glycerol | -1.76 | - | low |
| 5X Herculase II Reaction Buffer Trometamol | -1.56 | - | low |
| Ammonium sulphate | -5.1 | - | low |
| SureSelect RNase Block Glycerol | -1.76 | - | low |

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

Section 13. Disposal considerations

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

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

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

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

Section 14. Transport information

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

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

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

Section 15. Regulatory information

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

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Water Act (CWA) 311: Edetic acid; Potassium hydroxide

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Section 15. Regulatory information

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification

| | |
|--|---|
| End Repair-A Tailing Enzyme Mix | EYE IRRITATION - Category 2B |
| End Repair-A Tailing Buffer | Not applicable. |
| T4 DNA Ligase | EYE IRRITATION - Category 2B |
| Ligation Buffer | EYE IRRITATION - Category 2B |
| | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| Adaptor Oligo Mix | Not applicable. |
| Forward Primer | Not applicable. |
| 100 mM dNTP Mix (25 mM each dNTP) | Not applicable. |
| Herculase II Fusion DNA Polymerase | EYE IRRITATION - Category 2B |
| 5X Herculase II Reaction Buffer | Not applicable. |
| SureSelect Binding Buffer | Not applicable. |
| SureSelect Wash Buffer 1 | Not applicable. |
| SureSelect Wash Buffer 2 | Not applicable. |
| SureSelect XT HS and XT Low Input Blocker Mix | Not applicable. |
| SureSelect Fast Hybridization Buffer | Not applicable. |
| SureSelect RNase Block | EYE IRRITATION - Category 2B |
| SureSelect Post-Capture Primer Mix | Not applicable. |
| SureSelect XT Low Input Index Bulk Set 2 A01-H12 | Not applicable. |

Composition/information on ingredients

| Name | % | Classification |
|--|-----------|--|
| End Repair-A Tailing Enzyme Mix | | |
| Glycerol | ≥50 - ≤75 | EYE IRRITATION - Category 2A |
| End Repair-A Tailing Buffer | | |
| 2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride | ≤3 | SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| Potassium chloride | ≤3 | EYE IRRITATION - Category 2A |
| T4 DNA Ligase | | |
| Glycerol | ≥50 - ≤75 | EYE IRRITATION - Category 2A |
| Ligation Buffer | | |
| Polyethylene glycol | ≥10 - ≤25 | EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| Glycerol | ≥10 - ≤25 | EYE IRRITATION - Category 2A |
| Herculase II Fusion DNA Polymerase | | |
| Glycerol | ≥50 - ≤75 | EYE IRRITATION - Category 2A |
| 5X Herculase II Reaction Buffer | | |

Section 15. Regulatory information

| | | |
|---|-----------|---|
| Trometamol | ≤3 | COMBUSTIBLE DUSTS SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| Hexadecan-1-ol, ethoxylated | ≤3 | SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| SureSelect Binding Buffer Sodium chloride | <10 | EYE IRRITATION - Category 2A |
| SureSelect Fast Hybridization Buffer 2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride | ≤3 | SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| SureSelect RNase Block Glycerol | ≥50 - ≤75 | EYE IRRITATION - Category 2A |

SARA 313

| | Product name | CAS number | % |
|--|---|------------|------|
| Form R - Reporting requirements | 5X Herculase II Reaction Buffer Ammonium sulphate | 7783-20-2 | <2.5 |
| Supplier notification | 5X Herculase II Reaction Buffer Ammonium sulphate | 7783-20-2 | <2.5 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

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

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

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.

Section 15. Regulatory information

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

Section 16. Other information


History

| | |
|-------------------------------|--------------|
| Date of issue | : 12/26/2018 |
| Date of previous issue | : 10/10/2018 |
| Version | : 2.1 |

Key to abbreviations

| |
|---|
| : 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 |
| : UN = United Nations |

Procedure used to derive the classification

| Classification | Justification |
|---|--|
|  End Repair-A Tailing Enzyme Mix EYE IRRITATION - Category 2B | Calculation method |
| T4 DNA Ligase EYE IRRITATION - Category 2B | Calculation method |
| Ligation Buffer EYE IRRITATION - Category 2B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 | Calculation method Calculation method |
| Herculase II Fusion DNA Polymerase EYE IRRITATION - Category 2B | Calculation method |
| SureSelect RNase Block EYE IRRITATION - Category 2B | Calculation method |

 Indicates information that has changed from previously issued version.

Section 16. Other information

[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.