

Agilent Technologies Australia Pty Ltd  
347 Burwood Highway  
Forest Hill  
Victoria 3131, Australia  
1800 802 402

## SureSelect XT Automated Library Prep Kit (illumina), Agilent Part Number 5500-0075

### 1 . Identification of the material and supplier

#### Names

<b>Product name</b>	: SureSelect XT Automated Library Prep Kit (illumina), Agilent Part Number 5500-0075
<b>Part No. (Chemical Kit)</b>	: 5500-0075
<b>Part No.</b>	: 10X End-Repair Buffer 5190-3609 5X T4 DNA Ligase Buffer 5190-3610 10x Klenow Polymerase Buffer 5190-3611 T4 DNA Ligase 5190-3612 Exo(-) Klenow 5190-3613 T4 DNA Polymerase 5190-3614 Klenow DNA Polymerase 5190-3615 T4 Polynucleotide Kinase 5190-3616 dATP 5190-3617 dNTP Mix 5190-3618 InPE Adapter Oligo Mix 5190-3619 InPE Primer 1.0 5190-3620 PCR Primer Index 1 5190-3037 PCR Primer Index 2 5190-3038 PCR Primer Index 3 5190-3039 PCR Primer Index 4 5190-3040 PCR Primer Index 5 5190-3041 PCR Primer Index 6 5190-3042 PCR Primer Index 7 5190-3043 PCR Primer Index 8 5190-3044 PCR Primer Index 9 5190-3045 PCR Primer Index 10 5190-3046 PCR Primer Index 11 5190-3047 PCR Primer Index 12 5190-3048

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

#### Supplier

**Supplier/Manufacturer** : Agilent Technologies Australia Pty Ltd  
347 Burwood Highway  
Forest Hill  
Victoria 3131, Australia  
1800 802 402

**Emergency telephone number** : Chemtrec: +(61)-290372994

#### Uses

<b>Area of application</b>	: 10X End-Repair Buffer	Industrial applications, Professional applications.
	: 5X T4 DNA Ligase Buffer	Industrial applications, Professional applications.
	: 10x Klenow Polymerase Buffer	Industrial applications, Professional applications.
	: T4 DNA Ligase	Industrial applications, Professional applications.
	: Exo(-) Klenow	Industrial applications, Professional applications.
	: T4 DNA Polymerase	Industrial applications, Professional applications.
	: Klenow DNA Polymerase	Industrial applications, Professional applications.
	: T4 Polynucleotide Kinase	Industrial applications, Professional applications.

# 1 . Identification of the material and supplier

dATP	applications.
dNTP Mix	Industrial applications, Professional applications.
InPE Adapter Oligo Mix	Industrial applications, Professional applications.
InPE Primer 1.0	Industrial applications, Professional applications.
PCR Primer Index 1	Industrial applications, Professional applications.
PCR Primer Index 2	Industrial applications, Professional applications.
PCR Primer Index 3	Industrial applications, Professional applications.
PCR Primer Index 4	Industrial applications, Professional applications.
PCR Primer Index 5	Industrial applications, Professional applications.
PCR Primer Index 6	Industrial applications, Professional applications.
PCR Primer Index 7	Industrial applications, Professional applications.
PCR Primer Index 8	Industrial applications, Professional applications.
PCR Primer Index 9	Industrial applications, Professional applications.
PCR Primer Index 10	Industrial applications, Professional applications.
PCR Primer Index 11	Industrial applications, Professional applications.
PCR Primer Index 12	Industrial applications, Professional applications.

**Material uses**

: Analytical reagent.

10X End-Repair Buffer	1.2 ml
5X T4 DNA Ligase Buffer	1.2 ml
10x Klenow Polymerase Buffer	0.7 ml
T4 DNA Ligase	0.18 ml
Exo(-) Klenow	0.41 ml
T4 DNA Polymerase	0.12 ml
Klenow DNA Polymerase	0.24 ml
T4 Polynucleotide Kinase	0.265 ml
dATP	0.14 ml
dNTP Mix	0.2 ml
InPE Adapter Oligo Mix	0.12 ml
InPE Primer 1.0	0.3 ml
PCR Primer Index 1	0.025 ml
PCR Primer Index 2	0.025 ml
PCR Primer Index 3	0.025 ml
PCR Primer Index 4	0.025 ml
PCR Primer Index 5	0.025 ml
PCR Primer Index 6	0.025 ml
PCR Primer Index 7	0.025 ml
PCR Primer Index 8	0.025 ml
PCR Primer Index 9	0.025 ml
PCR Primer Index 10	0.025 ml
PCR Primer Index 11	0.025 ml
PCR Primer Index 12	0.025 ml

## 2 . Hazards identification

<b>Classification</b>	:	10X End-Repair Buffer	Not regulated.
		5X T4 DNA Ligase Buffer	Not regulated.
		10x Klenow Polymerase Buffer	Not regulated.
		T4 DNA Ligase	Not regulated.
		Exo(-) Klenow	Not regulated.
		T4 DNA Polymerase	Not regulated.
		Klenow DNA Polymerase	Not regulated.
		T4 Polynucleotide Kinase	Not regulated.
		dATP	Not regulated.
		dNTP Mix	Not regulated.
		InPE Adapter Oligo Mix	Not regulated.
		InPE Primer 1.0	Not regulated.
		PCR Primer Index 1	Not regulated.
		PCR Primer Index 2	Not regulated.
		PCR Primer Index 3	Not regulated.
		PCR Primer Index 4	Not regulated.
		PCR Primer Index 5	Not regulated.
	<b>Risk phrases</b>	:	10X End-Repair Buffer
		5X T4 DNA Ligase Buffer	Not classified.
		10x Klenow Polymerase Buffer	Not classified.
		T4 DNA Ligase	Not classified.
		Exo(-) Klenow	Not classified.
		T4 DNA Polymerase	Not classified.
		Klenow DNA Polymerase	Not classified.
		T4 Polynucleotide Kinase	Not classified.
		dATP	Not classified.
		dNTP Mix	Not classified.
		InPE Adapter Oligo Mix	Not classified.
		InPE Primer 1.0	Not classified.
		PCR Primer Index 1	Not classified.
		PCR Primer Index 2	Not classified.
		PCR Primer Index 3	Not classified.
		PCR Primer Index 4	Not classified.
		PCR Primer Index 5	Not classified.
<b>Safety phrases</b>		:	10X End-Repair Buffer
		5X T4 DNA Ligase Buffer	S36- Wear suitable protective clothing.
		10x Klenow Polymerase Buffer	S36- Wear suitable protective clothing.
		T4 DNA Ligase	S36- Wear suitable protective clothing.
		Exo(-) Klenow	S36- Wear suitable protective clothing.
		T4 DNA Polymerase	S36- Wear suitable protective clothing.
		Klenow DNA Polymerase	S36- Wear suitable protective clothing.
		T4 Polynucleotide Kinase	S36- Wear suitable protective clothing.
		dATP	S36- Wear suitable protective clothing.
		dNTP Mix	S36- Wear suitable protective clothing.
		InPE Adapter Oligo Mix	S36- Wear suitable protective clothing.
		InPE Primer 1.0	S36- Wear suitable protective clothing.
		PCR Primer Index 1	S36- Wear suitable protective clothing.
		PCR Primer Index 2	S36- Wear suitable protective clothing.
		PCR Primer Index 3	S36- Wear suitable protective clothing.
		PCR Primer Index 4	S36- Wear suitable protective clothing.
		PCR Primer Index 5	S36- Wear suitable protective clothing.

## 2 . Hazards identification

**Statement of hazardous/dangerous nature**

PCR Primer Index 6	S36- Wear suitable protective clothing.
PCR Primer Index 7	S36- Wear suitable protective clothing.
PCR Primer Index 8	S36- Wear suitable protective clothing.
PCR Primer Index 9	S36- Wear suitable protective clothing.
PCR Primer Index 10	S36- Wear suitable protective clothing.
PCR Primer Index 11	S36- Wear suitable protective clothing.
PCR Primer Index 12	S36- Wear suitable protective clothing.
: 10X End-Repair Buffer	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
5X T4 DNA Ligase Buffer	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
10x Klenow Polymerase Buffer	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
T4 DNA Ligase	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Exo(-) Klenow	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
T4 DNA Polymerase	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
Klenow DNA Polymerase	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
T4 Polynucleotide Kinase	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
dATP	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
dNTP Mix	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
InPE Adapter Oligo Mix	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
InPE Primer 1.0	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
PCR Primer Index 1	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
PCR Primer Index 2	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
PCR Primer Index 3	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
PCR Primer Index 4	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
PCR Primer Index 5	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
PCR Primer Index 6	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
PCR Primer Index 7	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
PCR Primer Index 8	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
PCR Primer Index 9	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
PCR Primer Index 10	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
PCR Primer Index 11	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
PCR Primer Index 12	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

## 3 . Composition/information on ingredients

<b>Mixture</b>	: 10X End-Repair Buffer	Yes.
	5X T4 DNA Ligase Buffer	Yes.
	10x Klenow Polymerase Buffer	Yes.
	T4 DNA Ligase	Yes.
	Exo(-) Klenow	Yes.
	T4 DNA Polymerase	Yes.
	Klenow DNA Polymerase	Yes.
	T4 Polynucleotide Kinase	Yes.

### 3 . Composition/information on ingredients

dATP	Yes.
dNTP Mix	Yes.
InPE Adapter Oligo Mix	Yes.
InPE Primer 1.0	Yes.
PCR Primer Index 1	Yes.
PCR Primer Index 2	Yes.
PCR Primer Index 3	Yes.
PCR Primer Index 4	Yes.
PCR Primer Index 5	Yes.
PCR Primer Index 6	Yes.
PCR Primer Index 7	Yes.
PCR Primer Index 8	Yes.
PCR Primer Index 9	Yes.
PCR Primer Index 10	Yes.
PCR Primer Index 11	Yes.
PCR Primer Index 12	Yes.

Ingredient name	CAS number	Concentration
<b>5X T4 DNA Ligase Buffer</b> Polyethylene glycol	25322-68-3	10 - <30
<b>T4 DNA Ligase</b> Glycerol	56-81-5	30 - 60
<b>Exo(-) Klenow</b> Glycerol	56-81-5	30 - 60
<b>T4 DNA Polymerase</b> Glycerol	56-81-5	30 - 60
<b>Klenow DNA Polymerase</b> Glycerol	56-81-5	30 - 60
<b>T4 Polynucleotide Kinase</b> Glycerol	56-81-5	30 - 60

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

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

### 4 . First-aid measures

<b>Inhalation</b>	: 10X End-Repair 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.
	5X T4 DNA Ligase 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.
	10x Klenow Polymerase 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.

## 4 . First-aid measures

T4 DNA Ligase	surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Exo(-) Klenow	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
T4 DNA Polymerase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Klenow DNA Polymerase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
T4 Polynucleotide Kinase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
dATP	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
dNTP Mix	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.
InPE Adapter Oligo Mix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
InPE Primer 1.0	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
PCR Primer Index 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
PCR Primer Index 2	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
PCR Primer Index 3	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
PCR Primer Index 4	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
PCR Primer Index 5	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
PCR Primer Index 6	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
PCR Primer Index 7	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
PCR Primer Index 8	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
PCR Primer Index 9	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
PCR Primer Index 10	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
PCR Primer Index 11	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

## 4 . First-aid measures

	PCR Primer Index 12	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Ingestion</b>	: 10X End-Repair 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.
	5X T4 DNA Ligase 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.
	10x Klenow Polymerase 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.
	T4 DNA Ligase	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Exo(-) Klenow	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	T4 DNA Polymerase	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.
	Klenow DNA Polymerase	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.
	T4 Polynucleotide Kinase	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

## 4 . First-aid measures

dATP	do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
dNTP Mix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
InPE Adapter 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.
InPE Primer 1.0	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.
PCR Primer Index 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.
PCR Primer Index 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.
PCR Primer Index 3	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.
PCR Primer Index 4	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



## 4 . First-aid measures

PCR Primer Index 5	attention if symptoms occur. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
PCR Primer Index 6	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.
PCR Primer Index 7	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.
PCR Primer Index 8	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.
PCR Primer Index 9	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.
PCR Primer Index 10	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.
PCR Primer Index 11	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.
PCR Primer Index 12	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

## 4 . First-aid measures

<b>Skin contact</b>	: 10X End-Repair Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	5X T4 DNA Ligase Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	10x Klenow Polymerase 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.
	Exo(-) Klenow	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	T4 DNA Polymerase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Klenow DNA Polymerase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	T4 Polynucleotide Kinase	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	dATP	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	dNTP Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	InPE Adapter Oligo Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	InPE Primer 1.0	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	PCR Primer Index 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	PCR Primer Index 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	PCR Primer Index 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	PCR Primer Index 4	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	PCR Primer Index 5	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	PCR Primer Index 6	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	PCR Primer Index 7	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	PCR Primer Index 8	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	PCR Primer Index 9	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	PCR Primer Index 10	Flush contaminated skin with plenty of water.

## 4 . First-aid measures

		Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	PCR Primer Index 11	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	PCR Primer Index 12	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Eye contact</b>	: 10X End-Repair 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.
	5X T4 DNA Ligase 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.
	10x Klenow Polymerase 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. Get medical attention if irritation occurs.
	Exo(-) Klenow	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	T4 DNA Polymerase	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.
	Klenow DNA Polymerase	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 Polynucleotide Kinase	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.
	dATP	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.
	dNTP Mix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	InPE Adapter 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.
	InPE Primer 1.0	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.
	PCR Primer Index 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.
	PCR Primer Index 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.
	PCR Primer Index 3	Immediately flush eyes with plenty of water,

## 4 . First-aid measures

PCR Primer Index 4	occasionally lifting the upper and lower eyelids. 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.
PCR Primer Index 5	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.
PCR Primer Index 6	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.
PCR Primer Index 7	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.
PCR Primer Index 8	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.
PCR Primer Index 9	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.
PCR Primer Index 10	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.
PCR Primer Index 11	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.
PCR Primer Index 12	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.

<b>Protection of first-aiders</b>	: 10X End-Repair Buffer	No action shall be taken involving any personal risk or without suitable training.
	5X T4 DNA Ligase Buffer	No action shall be taken involving any personal risk or without suitable training.
	10x Klenow Polymerase 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.
	Exo(-) Klenow	No action shall be taken involving any personal risk or without suitable training.
	T4 DNA Polymerase	No action shall be taken involving any personal risk or without suitable training.
	Klenow DNA Polymerase	No action shall be taken involving any personal risk or without suitable training.
	T4 Polynucleotide Kinase	No action shall be taken involving any personal risk or without suitable training.
	dATP	No action shall be taken involving any personal risk or without suitable training.
	dNTP Mix	No action shall be taken involving any personal risk or without suitable training.
	InPE Adapter Oligo Mix	No action shall be taken involving any personal risk or without suitable training.
	InPE Primer 1.0	No action shall be taken involving any personal risk or without suitable training.
	PCR Primer Index 1	No action shall be taken involving any personal

## 4 . First-aid measures

PCR Primer Index 2	risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.
PCR Primer Index 3	No action shall be taken involving any personal risk or without suitable training.
PCR Primer Index 4	No action shall be taken involving any personal risk or without suitable training.
PCR Primer Index 5	No action shall be taken involving any personal risk or without suitable training.
PCR Primer Index 6	No action shall be taken involving any personal risk or without suitable training.
PCR Primer Index 7	No action shall be taken involving any personal risk or without suitable training.
PCR Primer Index 8	No action shall be taken involving any personal risk or without suitable training.
PCR Primer Index 9	No action shall be taken involving any personal risk or without suitable training.
PCR Primer Index 10	No action shall be taken involving any personal risk or without suitable training.
PCR Primer Index 11	No action shall be taken involving any personal risk or without suitable training.
PCR Primer Index 12	No action shall be taken involving any personal risk or without suitable training.
<b>Advice to doctor</b> : 10X End-Repair 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.
5X T4 DNA Ligase Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
10x Klenow Polymerase 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	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Exo(-) Klenow	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
T4 DNA Polymerase	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Klenow DNA Polymerase	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
T4 Polynucleotide Kinase	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
dATP	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
dNTP Mix	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.
InPE Adapter Oligo Mix	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately

## 4 . First-aid measures

InPE Primer 1.0	if large quantities have been ingested or inhaled. No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
PCR Primer Index 1	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
PCR Primer Index 2	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
PCR Primer Index 3	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
PCR Primer Index 4	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
PCR Primer Index 5	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
PCR Primer Index 6	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
PCR Primer Index 7	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
PCR Primer Index 8	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
PCR Primer Index 9	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
PCR Primer Index 10	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
PCR Primer Index 11	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
PCR Primer Index 12	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5 . Fire-fighting measures

[Extinguishing media](#)

## 5 . Fire-fighting measures

<b>Suitable</b>	: 10X End-Repair Buffer	Use an extinguishing agent suitable for the surrounding fire.
	5X T4 DNA Ligase Buffer	Use an extinguishing agent suitable for the surrounding fire.
	10x Klenow Polymerase Buffer	Use an extinguishing agent suitable for the surrounding fire.
	T4 DNA Ligase	Use an extinguishing agent suitable for the surrounding fire.
	Exo(-) Klenow	Use an extinguishing agent suitable for the surrounding fire.
	T4 DNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
	Klenow DNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
	T4 Polynucleotide Kinase	Use an extinguishing agent suitable for the surrounding fire.
	dATP	Use an extinguishing agent suitable for the surrounding fire.
	dNTP Mix	Use an extinguishing agent suitable for the surrounding fire.
	InPE Adapter Oligo Mix	Use an extinguishing agent suitable for the surrounding fire.
	InPE Primer 1.0	Use an extinguishing agent suitable for the surrounding fire.
	PCR Primer Index 1	Use an extinguishing agent suitable for the surrounding fire.
	PCR Primer Index 2	Use an extinguishing agent suitable for the surrounding fire.
	PCR Primer Index 3	Use an extinguishing agent suitable for the surrounding fire.
	PCR Primer Index 4	Use an extinguishing agent suitable for the surrounding fire.
	PCR Primer Index 5	Use an extinguishing agent suitable for the surrounding fire.
	PCR Primer Index 6	Use an extinguishing agent suitable for the surrounding fire.
	PCR Primer Index 7	Use an extinguishing agent suitable for the surrounding fire.
	PCR Primer Index 8	Use an extinguishing agent suitable for the surrounding fire.
PCR Primer Index 9	Use an extinguishing agent suitable for the surrounding fire.	
PCR Primer Index 10	Use an extinguishing agent suitable for the surrounding fire.	
PCR Primer Index 11	Use an extinguishing agent suitable for the surrounding fire.	
PCR Primer Index 12	Use an extinguishing agent suitable for the surrounding fire.	
<b>Not suitable</b>	: 10X End-Repair Buffer	None known.
	5X T4 DNA Ligase Buffer	None known.
	10x Klenow Polymerase Buffer	None known.
	T4 DNA Ligase	None known.
	Exo(-) Klenow	None known.
	T4 DNA Polymerase	None known.
	Klenow DNA Polymerase	None known.
	T4 Polynucleotide Kinase	None known.
	dATP	None known.
	dNTP Mix	None known.
	InPE Adapter Oligo Mix	None known.
	InPE Primer 1.0	None known.
	PCR Primer Index 1	None known.
PCR Primer Index 2	None known.	
PCR Primer Index 3	None known.	
PCR Primer Index 4	None known.	

## 5 . Fire-fighting measures

	PCR Primer Index 5	None known.
	PCR Primer Index 6	None known.
	PCR Primer Index 7	None known.
	PCR Primer Index 8	None known.
	PCR Primer Index 9	None known.
	PCR Primer Index 10	None known.
	PCR Primer Index 11	None known.
	PCR Primer Index 12	None known.
<b>Special exposure hazards</b>	: 10X End-Repair 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.
	5X T4 DNA Ligase Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	10x Klenow Polymerase 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.
	Exo(-) Klenow	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	T4 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.
	Klenow 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.
	T4 Polynucleotide Kinase	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.
	dATP	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.
	dNTP Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	InPE Adapter Oligo 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.
	InPE Primer 1.0	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.
	PCR Primer Index 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.
	PCR Primer Index 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.
	PCR Primer Index 3	Promptly isolate the scene by removing all



## 5 . Fire-fighting measures

PCR Primer Index 4	persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
PCR Primer Index 5	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.
PCR Primer Index 6	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.
PCR Primer Index 7	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.
PCR Primer Index 8	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.
PCR Primer Index 9	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.
PCR Primer Index 10	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.
PCR Primer Index 11	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.
PCR Primer Index 12	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
10X End-Repair Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
5X T4 DNA Ligase Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
10x Klenow Polymerase Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
T4 DNA Ligase	In a fire or if heated, a pressure increase will occur and the container may burst.
Exo(-) Klenow	In a fire or if heated, a pressure increase will occur and the container may burst.
T4 DNA Polymerase	In a fire or if heated, a pressure increase will occur and the container may burst.
Klenow DNA Polymerase	In a fire or if heated, a pressure increase will occur and the container may burst.
T4 Polynucleotide Kinase	In a fire or if heated, a pressure increase will occur and the container may burst.
dATP	In a fire or if heated, a pressure increase will occur and the container may burst.
dNTP Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
InPE Adapter Oligo Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
InPE Primer 1.0	In a fire or if heated, a pressure increase will occur and the container may burst.
PCR Primer Index 1	In a fire or if heated, a pressure increase will

## 5 . Fire-fighting measures

	PCR Primer Index 2	occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
	PCR Primer Index 3	In a fire or if heated, a pressure increase will occur and the container may burst.
	PCR Primer Index 4	In a fire or if heated, a pressure increase will occur and the container may burst.
	PCR Primer Index 5	In a fire or if heated, a pressure increase will occur and the container may burst.
	PCR Primer Index 6	In a fire or if heated, a pressure increase will occur and the container may burst.
	PCR Primer Index 7	In a fire or if heated, a pressure increase will occur and the container may burst.
	PCR Primer Index 8	In a fire or if heated, a pressure increase will occur and the container may burst.
	PCR Primer Index 9	In a fire or if heated, a pressure increase will occur and the container may burst.
	PCR Primer Index 10	In a fire or if heated, a pressure increase will occur and the container may burst.
	PCR Primer Index 11	In a fire or if heated, a pressure increase will occur and the container may burst.
	PCR Primer Index 12	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: 10X End-Repair Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
	5X T4 DNA Ligase Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	10x Klenow Polymerase Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	T4 DNA Ligase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Exo(-) Klenow	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	T4 DNA Polymerase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Klenow DNA Polymerase	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	T4 Polynucleotide Kinase	Decomposition products may include the following materials: carbon dioxide carbon monoxide

## 5 . Fire-fighting measures

dATP	No specific data.
dNTP Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides
InPE Adapter Oligo Mix	No specific data.
InPE Primer 1.0	No specific data.
PCR Primer Index 1	No specific data.
PCR Primer Index 2	No specific data.
PCR Primer Index 3	No specific data.
PCR Primer Index 4	No specific data.
PCR Primer Index 5	No specific data.
PCR Primer Index 6	No specific data.
PCR Primer Index 7	No specific data.
PCR Primer Index 8	No specific data.
PCR Primer Index 9	No specific data.
PCR Primer Index 10	No specific data.
PCR Primer Index 11	No specific data.
PCR Primer Index 12	No specific data.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6 . Accidental release measures

<b>Personal precautions</b>	:	10X End-Repair Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
		5X T4 DNA Ligase Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
		10x Klenow Polymerase Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
		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 spilt material. Put on appropriate personal protective equipment (see Section 8).
		Exo(-) Klenow	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
		T4 DNA Polymerase	No action shall be taken involving any personal risk or without suitable training. Evacuate

## 6 . Accidental release measures

	surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
Klenow DNA Polymerase	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
T4 Polynucleotide Kinase	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
dATP	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
dNTP Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
InPE Adapter 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 spilt material. Put on appropriate personal protective equipment (see Section 8).
InPE Primer 1.0	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
PCR Primer Index 1	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
PCR Primer Index 2	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
PCR Primer Index 3	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

## 6 . Accidental release measures

	touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
PCR Primer Index 4	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
PCR Primer Index 5	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
PCR Primer Index 6	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
PCR Primer Index 7	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
PCR Primer Index 8	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
PCR Primer Index 9	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
PCR Primer Index 10	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
PCR Primer Index 11	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
PCR Primer Index 12	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see

## 6 . Accidental release measures

<b>Environmental precautions</b> :	10X End-Repair Buffer	Section 8). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	5X T4 DNA Ligase Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	10x Klenow Polymerase Buffer	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	T4 DNA Ligase	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Exo(-) Klenow	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	T4 DNA Polymerase	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Klenow DNA Polymerase	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	T4 Polynucleotide Kinase	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	dATP	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	dNTP Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	InPE Adapter Oligo Mix	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	InPE Primer 1.0	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	PCR Primer Index 1	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

## 6 . Accidental release measures

PCR Primer Index 2	waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
PCR Primer Index 3	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
PCR Primer Index 4	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
PCR Primer Index 5	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
PCR Primer Index 6	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
PCR Primer Index 7	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
PCR Primer Index 8	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
PCR Primer Index 9	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
PCR Primer Index 10	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
PCR Primer Index 11	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
PCR Primer Index 12	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods for cleaning up** : 10X End-Repair 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.

5X T4 DNA Ligase Buffer

Stop leak if without risk. Move containers from

## 6 . Accidental release measures

	spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
10x Klenow Polymerase 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 inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Exo(-) Klenow	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
T4 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.
Klenow 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.
T4 Polynucleotide Kinase	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.
dATP	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.
dNTP Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
InPE Adapter 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-



## 6 . Accidental release measures

	insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
InPE Primer 1.0	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.
PCR Primer Index 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.
PCR Primer Index 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.
PCR Primer Index 3	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.
PCR Primer Index 4	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.
PCR Primer Index 5	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.
PCR Primer Index 6	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.
PCR Primer Index 7	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.
PCR Primer Index 8	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

## 6 . Accidental release measures

PCR Primer Index 9	<p>container. Dispose of via a licensed waste disposal contractor.</p> <p>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.</p>
PCR Primer Index 10	<p>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.</p>
PCR Primer Index 11	<p>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.</p>
PCR Primer Index 12	<p>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.</p>

## 7 . Handling and storage

<b>Handling</b>	: 10X End-Repair Buffer	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
	5X T4 DNA Ligase Buffer	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
	10x Klenow Polymerase Buffer	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
	T4 DNA Ligase	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

## 7 . Handling and storage

Exo(-) Klenow	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
T4 DNA Polymerase	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
Klenow DNA Polymerase	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
T4 Polynucleotide Kinase	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
dATP	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
dNTP Mix	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
InPE Adapter Oligo Mix	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
InPE Primer 1.0	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
PCR Primer Index 1	Put on appropriate personal protective

## 7 . Handling and storage

	equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
PCR Primer Index 2	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
PCR Primer Index 3	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
PCR Primer Index 4	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
PCR Primer Index 5	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
PCR Primer Index 6	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
PCR Primer Index 7	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
PCR Primer Index 8	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
PCR Primer Index 9	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and

## 7 . Handling and storage

		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.
	PCR Primer Index 10	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
	PCR Primer Index 11	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
	PCR Primer Index 12	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
<b>Storage</b>	: 10X End-Repair Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
	5X T4 DNA Ligase Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
	10x Klenow Polymerase Buffer	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
	T4 DNA Ligase	Store in accordance with local regulations. Store in original container protected from direct

## 7 . Handling and storage

	<p>sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p>
Exo(-) Klenow	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p>
T4 DNA Polymerase	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p>
Klenow DNA Polymerase	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p>
T4 Polynucleotide Kinase	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p>
dATP	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p>
dNTP Mix	<p>Store in accordance with local regulations.</p>

## 7 . Handling and storage

	<p>Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p>
InPE Adapter Oligo Mix	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p>
InPE Primer 1.0	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p>
PCR Primer Index 1	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p>
PCR Primer Index 2	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p>
PCR Primer Index 3	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p>

## 7 . Handling and storage

PCR Primer Index 4

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

PCR Primer Index 5

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

PCR Primer Index 6

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

PCR Primer Index 7

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

PCR Primer Index 8

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

PCR Primer Index 9

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



## 7 . Handling and storage

PCR Primer Index 10	<p>environmental contamination. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p>
PCR Primer Index 11	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p>
PCR Primer Index 12	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.</p>

## 8 . Exposure controls/personal protection

### Occupational exposure limits

<b>Ingredient name</b>	<b>Exposure limits</b>
<b>5X T4 DNA Ligase Buffer</b> Polyethylene glycol	<b>TRGS900 AGW (Germany, 2/2010).</b> PEAK: 8000 mg/m <sup>3</sup> 15 minute(s). Form: inhalable fraction TWA: 1000 mg/m <sup>3</sup> 8 hour(s). Form: inhalable fraction
<b>T4 DNA Ligase</b> Glycerol	<b>Safe Work Australia (Australia, 8/2005).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s).
<b>Exo(-) Klenow</b> Glycerol	<b>Safe Work Australia (Australia, 8/2005).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s).
<b>T4 DNA Polymerase</b> Glycerol	<b>Safe Work Australia (Australia, 8/2005).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s).
<b>Klenow DNA Polymerase</b> Glycerol	<b>Safe Work Australia (Australia, 8/2005).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s).
<b>T4 Polynucleotide Kinase</b> Glycerol	<b>Safe Work Australia (Australia, 8/2005).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s).

## **8 . Exposure controls/personal protection**

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Exposure controls**
- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **9 . Physical and chemical properties**

<b>Physical state</b>	: 10X End-Repair Buffer	Liquid.
	: 5X T4 DNA Ligase Buffer	Liquid.
	: 10x Klenow Polymerase Buffer	Liquid.
	: T4 DNA Ligase	Liquid.
	: Exo(-) Klenow	Liquid.
	: T4 DNA Polymerase	Liquid.
	: Klenow DNA Polymerase	Liquid.
	: T4 Polynucleotide Kinase	Liquid.
	: dATP	Liquid.
	: dNTP Mix	Liquid.
	: InPE Adapter Oligo Mix	Liquid.
	: InPE Primer 1.0	Liquid.
	: PCR Primer Index 1	Liquid.
	: PCR Primer Index 2	Liquid.
	: PCR Primer Index 3	Liquid.
	: PCR Primer Index 4	Liquid.
	: PCR Primer Index 5	Liquid.
: PCR Primer Index 6	Liquid.	
: PCR Primer Index 7	Liquid.	
: PCR Primer Index 8	Liquid.	
: PCR Primer Index 9	Liquid.	
: PCR Primer Index 10	Liquid.	
: PCR Primer Index 11	Liquid.	
: PCR Primer Index 12	Liquid.	
<b>Colour</b>		

**9 . Physical and chemical properties**

: 10X End-Repair Buffer	Not available.
5X T4 DNA Ligase Buffer	Not available.
10x Klenow Polymerase Buffer	Not available.
T4 DNA Ligase	Not available.
Exo(-) Klenow	Not available.
T4 DNA Polymerase	Not available.
Klenow DNA Polymerase	Not available.
T4 Polynucleotide Kinase	Not available.
dATP	Not available.
dNTP Mix	Not available.
InPE Adapter Oligo Mix	Not available.
InPE Primer 1.0	Not available.
PCR Primer Index 1	Not available.
PCR Primer Index 2	Not available.
PCR Primer Index 3	Not available.
PCR Primer Index 4	Not available.
PCR Primer Index 5	Not available.
PCR Primer Index 6	Not available.
PCR Primer Index 7	Not available.
PCR Primer Index 8	Not available.
PCR Primer Index 9	Not available.
PCR Primer Index 10	Not available.
PCR Primer Index 11	Not available.
PCR Primer Index 12	Not available.

**Odour**

: 10X End-Repair Buffer	Not available.
5X T4 DNA Ligase Buffer	Not available.
10x Klenow Polymerase Buffer	Not available.
T4 DNA Ligase	Not available.
Exo(-) Klenow	Not available.
T4 DNA Polymerase	Not available.
Klenow DNA Polymerase	Not available.
T4 Polynucleotide Kinase	Not available.
dATP	Not available.
dNTP Mix	Not available.
InPE Adapter Oligo Mix	Not available.
InPE Primer 1.0	Not available.
PCR Primer Index 1	Not available.
PCR Primer Index 2	Not available.
PCR Primer Index 3	Not available.
PCR Primer Index 4	Not available.
PCR Primer Index 5	Not available.
PCR Primer Index 6	Not available.
PCR Primer Index 7	Not available.
PCR Primer Index 8	Not available.
PCR Primer Index 9	Not available.
PCR Primer Index 10	Not available.
PCR Primer Index 11	Not available.
PCR Primer Index 12	Not available.

**Odour threshold**

: 10X End-Repair Buffer	Not available.
5X T4 DNA Ligase Buffer	Not available.
10x Klenow Polymerase Buffer	Not available.
T4 DNA Ligase	Not available.
Exo(-) Klenow	Not available.
T4 DNA Polymerase	Not available.
Klenow DNA Polymerase	Not available.
T4 Polynucleotide Kinase	Not available.
dATP	Not available.
dNTP Mix	Not available.
InPE Adapter Oligo Mix	Not available.
InPE Primer 1.0	Not available.
PCR Primer Index 1	Not available.
PCR Primer Index 2	Not available.
PCR Primer Index 3	Not available.
PCR Primer Index 4	Not available.

## 9 . Physical and chemical properties

	PCR Primer Index 5	Not available.
	PCR Primer Index 6	Not available.
	PCR Primer Index 7	Not available.
	PCR Primer Index 8	Not available.
	PCR Primer Index 9	Not available.
	PCR Primer Index 10	Not available.
	PCR Primer Index 11	Not available.
	PCR Primer Index 12	Not available.
<b>Boiling point</b>	: 10X End-Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	10x Klenow Polymerase Buffer	Not available.
	T4 DNA Ligase	Not available.
	Exo(-) Klenow	Not available.
	T4 DNA Polymerase	Not available.
	Klenow DNA Polymerase	Not available.
	T4 Polynucleotide Kinase	Not available.
	dATP	100°C (212°F)
	dNTP Mix	100°C (212°F)
	InPE Adapter Oligo Mix	100°C (212°F)
	InPE Primer 1.0	100°C (212°F)
	PCR Primer Index 1	100°C (212°F)
	PCR Primer Index 2	100°C (212°F)
	PCR Primer Index 3	100°C (212°F)
	PCR Primer Index 4	100°C (212°F)
	PCR Primer Index 5	100°C (212°F)
	PCR Primer Index 6	100°C (212°F)
	PCR Primer Index 7	100°C (212°F)
	PCR Primer Index 8	100°C (212°F)
	PCR Primer Index 9	100°C (212°F)
	PCR Primer Index 10	100°C (212°F)
	PCR Primer Index 11	100°C (212°F)
	PCR Primer Index 12	100°C (212°F)
<b>Melting point</b>	: 10X End-Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	10x Klenow Polymerase Buffer	Not available.
	T4 DNA Ligase	Not available.
	Exo(-) Klenow	Not available.
	T4 DNA Polymerase	Not available.
	Klenow DNA Polymerase	Not available.
	T4 Polynucleotide Kinase	Not available.
	dATP	0°C (32°F)
	dNTP Mix	0°C (32°F)
	InPE Adapter Oligo Mix	0°C (32°F)
	InPE Primer 1.0	0°C (32°F)
	PCR Primer Index 1	0°C (32°F)
	PCR Primer Index 2	0°C (32°F)
	PCR Primer Index 3	0°C (32°F)
	PCR Primer Index 4	0°C (32°F)
	PCR Primer Index 5	0°C (32°F)
	PCR Primer Index 6	0°C (32°F)
	PCR Primer Index 7	0°C (32°F)
	PCR Primer Index 8	0°C (32°F)
	PCR Primer Index 9	0°C (32°F)
	PCR Primer Index 10	0°C (32°F)
	PCR Primer Index 11	0°C (32°F)
	PCR Primer Index 12	0°C (32°F)
<b>Vapour pressure</b>	: 10X End-Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	10x Klenow Polymerase Buffer	Not available.
	T4 DNA Ligase	Not available.
	Exo(-) Klenow	Not available.
	T4 DNA Polymerase	Not available.
	Klenow DNA Polymerase	Not available.
	T4 Polynucleotide Kinase	Not available.

## 9 . Physical and chemical properties

dATP	Not available.
dNTP Mix	Not available.
InPE Adapter Oligo Mix	Not available.
InPE Primer 1.0	Not available.
PCR Primer Index 1	Not available.
PCR Primer Index 2	Not available.
PCR Primer Index 3	Not available.
PCR Primer Index 4	Not available.
PCR Primer Index 5	Not available.
PCR Primer Index 6	Not available.
PCR Primer Index 7	Not available.
PCR Primer Index 8	Not available.
PCR Primer Index 9	Not available.
PCR Primer Index 10	Not available.
PCR Primer Index 11	Not available.
PCR Primer Index 12	Not available.
<b>Relative density</b>	
: 10X End-Repair Buffer	Not available.
5X T4 DNA Ligase Buffer	Not available.
10x Klenow Polymerase Buffer	Not available.
T4 DNA Ligase	Not available.
Exo(-) Klenow	Not available.
T4 DNA Polymerase	Not available.
Klenow DNA Polymerase	Not available.
T4 Polynucleotide Kinase	Not available.
dATP	Not available.
dNTP Mix	Not available.
InPE Adapter Oligo Mix	Not available.
InPE Primer 1.0	Not available.
PCR Primer Index 1	Not available.
PCR Primer Index 2	Not available.
PCR Primer Index 3	Not available.
PCR Primer Index 4	Not available.
PCR Primer Index 5	Not available.
PCR Primer Index 6	Not available.
PCR Primer Index 7	Not available.
PCR Primer Index 8	Not available.
PCR Primer Index 9	Not available.
PCR Primer Index 10	Not available.
PCR Primer Index 11	Not available.
PCR Primer Index 12	Not available.
<b>Flash point</b>	
: 10X End-Repair Buffer	Not available.
5X T4 DNA Ligase Buffer	Not available.
10x Klenow Polymerase Buffer	Not available.
T4 DNA Ligase	Not available.
Exo(-) Klenow	Not available.
T4 DNA Polymerase	Not available.
Klenow DNA Polymerase	Not available.
T4 Polynucleotide Kinase	Not available.
dATP	Not available.
dNTP Mix	Not available.
InPE Adapter Oligo Mix	Not available.
InPE Primer 1.0	Not available.
PCR Primer Index 1	Not available.
PCR Primer Index 2	Not available.
PCR Primer Index 3	Not available.
PCR Primer Index 4	Not available.
PCR Primer Index 5	Not available.
PCR Primer Index 6	Not available.
PCR Primer Index 7	Not available.
PCR Primer Index 8	Not available.
PCR Primer Index 9	Not available.
PCR Primer Index 10	Not available.
PCR Primer Index 11	Not available.
PCR Primer Index 12	Not available.

## 9 . Physical and chemical properties

<b>Flammable limits</b>	: 10X End-Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	10x Klenow Polymerase Buffer	Not available.
	T4 DNA Ligase	Not available.
	Exo(-) Klenow	Not available.
	T4 DNA Polymerase	Not available.
	Klenow DNA Polymerase	Not available.
	T4 Polynucleotide Kinase	Not available.
	dATP	Not available.
	dNTP Mix	Not available.
	InPE Adapter Oligo Mix	Not available.
	InPE Primer 1.0	Not available.
	PCR Primer Index 1	Not available.
	PCR Primer Index 2	Not available.
	PCR Primer Index 3	Not available.
	PCR Primer Index 4	Not available.
	PCR Primer Index 5	Not available.
	PCR Primer Index 6	Not available.
PCR Primer Index 7	Not available.	
PCR Primer Index 8	Not available.	
PCR Primer Index 9	Not available.	
PCR Primer Index 10	Not available.	
PCR Primer Index 11	Not available.	
PCR Primer Index 12	Not available.	
<b>Vapour density</b>	: 10X End-Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	10x Klenow Polymerase Buffer	Not available.
	T4 DNA Ligase	Not available.
	Exo(-) Klenow	Not available.
	T4 DNA Polymerase	Not available.
	Klenow DNA Polymerase	Not available.
	T4 Polynucleotide Kinase	Not available.
	dATP	Not available.
	dNTP Mix	Not available.
	InPE Adapter Oligo Mix	Not available.
	InPE Primer 1.0	Not available.
	PCR Primer Index 1	Not available.
	PCR Primer Index 2	Not available.
	PCR Primer Index 3	Not available.
	PCR Primer Index 4	Not available.
	PCR Primer Index 5	Not available.
	PCR Primer Index 6	Not available.
PCR Primer Index 7	Not available.	
PCR Primer Index 8	Not available.	
PCR Primer Index 9	Not available.	
PCR Primer Index 10	Not available.	
PCR Primer Index 11	Not available.	
PCR Primer Index 12	Not available.	
<b>pH</b>	: 10X End-Repair Buffer	7.5
	5X T4 DNA Ligase Buffer	7.5
	10x Klenow Polymerase Buffer	7.5
	T4 DNA Ligase	7.4
	Exo(-) Klenow	7
	T4 DNA Polymerase	6.5
	Klenow DNA Polymerase	7
	T4 Polynucleotide Kinase	7.4
	dATP	Not available.
	dNTP Mix	Not available.
	InPE Adapter Oligo Mix	7.5
	InPE Primer 1.0	7.5
	PCR Primer Index 1	7.5
PCR Primer Index 2	7.5	
PCR Primer Index 3	7.5	

**9 . Physical and chemical properties**

PCR Primer Index 4	7.5
PCR Primer Index 5	7.5
PCR Primer Index 6	7.5
PCR Primer Index 7	7.5
PCR Primer Index 8	7.5
PCR Primer Index 9	7.5
PCR Primer Index 10	7.5
PCR Primer Index 11	7.5
PCR Primer Index 12	7.5

<b>Viscosity</b>	:	10X End-Repair Buffer	Not available.
		5X T4 DNA Ligase Buffer	Not available.
		10x Klenow Polymerase Buffer	Not available.
		T4 DNA Ligase	Not available.
		Exo(-) Klenow	Not available.
		T4 DNA Polymerase	Not available.
		Klenow DNA Polymerase	Not available.
		T4 Polynucleotide Kinase	Not available.
		dATP	Not available.
		dNTP Mix	Not available.
		InPE Adapter Oligo Mix	Not available.
		InPE Primer 1.0	Not available.
		PCR Primer Index 1	Not available.
		PCR Primer Index 2	Not available.
		PCR Primer Index 3	Not available.
		PCR Primer Index 4	Not available.
		PCR Primer Index 5	Not available.
		PCR Primer Index 6	Not available.
		PCR Primer Index 7	Not available.
		PCR Primer Index 8	Not available.
		PCR Primer Index 9	Not available.
		PCR Primer Index 10	Not available.
		PCR Primer Index 11	Not available.
		PCR Primer Index 12	Not available.

<b>Auto-ignition temperature</b>	:	10X End-Repair Buffer	Not available.
		5X T4 DNA Ligase Buffer	Not available.
		10x Klenow Polymerase Buffer	Not available.
		T4 DNA Ligase	Not available.
		Exo(-) Klenow	Not available.
		T4 DNA Polymerase	Not available.
		Klenow DNA Polymerase	Not available.
		T4 Polynucleotide Kinase	Not available.
		dATP	Not available.
		dNTP Mix	Not available.
		InPE Adapter Oligo Mix	Not available.
		InPE Primer 1.0	Not available.
		PCR Primer Index 1	Not available.
		PCR Primer Index 2	Not available.
		PCR Primer Index 3	Not available.
		PCR Primer Index 4	Not available.
		PCR Primer Index 5	Not available.
		PCR Primer Index 6	Not available.
		PCR Primer Index 7	Not available.
		PCR Primer Index 8	Not available.
		PCR Primer Index 9	Not available.
		PCR Primer Index 10	Not available.
		PCR Primer Index 11	Not available.
		PCR Primer Index 12	Not available.

## 9 . Physical and chemical properties

<b>Evaporation rate</b>	: 10X End-Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	10x Klenow Polymerase Buffer	Not available.
	T4 DNA Ligase	Not available.
	Exo(-) Klenow	Not available.
	T4 DNA Polymerase	Not available.
	Klenow DNA Polymerase	Not available.
	T4 Polynucleotide Kinase	Not available.
	dATP	Not available.
	dNTP Mix	Not available.
	InPE Adapter Oligo Mix	Not available.
	InPE Primer 1.0	Not available.
	PCR Primer Index 1	Not available.
	PCR Primer Index 2	Not available.
	PCR Primer Index 3	Not available.
	PCR Primer Index 4	Not available.
	PCR Primer Index 5	Not available.
PCR Primer Index 6	Not available.	
PCR Primer Index 7	Not available.	
PCR Primer Index 8	Not available.	
PCR Primer Index 9	Not available.	
PCR Primer Index 10	Not available.	
PCR Primer Index 11	Not available.	
PCR Primer Index 12	Not available.	
<b>Solubility</b>	: 10X End-Repair Buffer	Easily soluble in the following materials: cold water and hot water.
	5X T4 DNA Ligase Buffer	Easily soluble in the following materials: cold water and hot water.
	10x Klenow Polymerase Buffer	Easily soluble in the following materials: cold water and hot water.
	T4 DNA Ligase	Soluble in the following materials: cold water and hot water.
	Exo(-) Klenow	Soluble in the following materials: cold water and hot water.
	T4 DNA Polymerase	Soluble in the following materials: cold water and hot water.
	Klenow DNA Polymerase	Soluble in the following materials: cold water and hot water.
	T4 Polynucleotide Kinase	Soluble in the following materials: cold water and hot water.
	dATP	Easily soluble in the following materials: cold water and hot water.
	dNTP Mix	Easily soluble in the following materials: cold water and hot water.
	InPE Adapter Oligo Mix	Easily soluble in the following materials: cold water and hot water.
	InPE Primer 1.0	Easily soluble in the following materials: cold water and hot water.
	PCR Primer Index 1	Easily soluble in the following materials: cold water and hot water.
	PCR Primer Index 2	Easily soluble in the following materials: cold water and hot water.
	PCR Primer Index 3	Easily soluble in the following materials: cold water and hot water.
	PCR Primer Index 4	Easily soluble in the following materials: cold water and hot water.
	PCR Primer Index 5	Easily soluble in the following materials: cold water and hot water.
PCR Primer Index 6	Easily soluble in the following materials: cold water and hot water.	
PCR Primer Index 7	Easily soluble in the following materials: cold water and hot water.	
PCR Primer Index 8	Easily soluble in the following materials: cold water and hot water.	
	Easily soluble in the following materials: cold	



## 9 . Physical and chemical properties

PCR Primer Index 9	water and hot water.
PCR Primer Index 10	Easily soluble in the following materials: cold water and hot water.
PCR Primer Index 11	Easily soluble in the following materials: cold water and hot water.
PCR Primer Index 12	Easily soluble in the following materials: cold water and hot water.

## 10 . Stability and reactivity

<b>Chemical stability</b>	: 10X End-Repair Buffer	The product is stable.
	5X T4 DNA Ligase Buffer	The product is stable.
	10x Klenow Polymerase Buffer	The product is stable.
	T4 DNA Ligase	The product is stable.
	Exo(-) Klenow	The product is stable.
	T4 DNA Polymerase	The product is stable.
	Klenow DNA Polymerase	The product is stable.
	T4 Polynucleotide Kinase	The product is stable.
	dATP	The product is stable.
	dNTP Mix	The product is stable.
	InPE Adapter Oligo Mix	The product is stable.
	InPE Primer 1.0	The product is stable.
	PCR Primer Index 1	The product is stable.
PCR Primer Index 2	The product is stable.	
PCR Primer Index 3	The product is stable.	
PCR Primer Index 4	The product is stable.	
PCR Primer Index 5	The product is stable.	
PCR Primer Index 6	The product is stable.	
PCR Primer Index 7	The product is stable.	
PCR Primer Index 8	The product is stable.	
PCR Primer Index 9	The product is stable.	
PCR Primer Index 10	The product is stable.	
PCR Primer Index 11	The product is stable.	
PCR Primer Index 12	The product is stable.	
<b>Possibility of hazardous reactions</b>	: 10X End-Repair Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	5X T4 DNA Ligase Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	10x Klenow Polymerase 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.
	Exo(-) Klenow	Under normal conditions of storage and use, hazardous reactions will not occur.
	T4 DNA Polymerase	Under normal conditions of storage and use, hazardous reactions will not occur.
	Klenow DNA Polymerase	Under normal conditions of storage and use, hazardous reactions will not occur.
	T4 Polynucleotide Kinase	Under normal conditions of storage and use, hazardous reactions will not occur.
	dATP	Under normal conditions of storage and use, hazardous reactions will not occur.
	dNTP Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	InPE Adapter Oligo Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	InPE Primer 1.0	Under normal conditions of storage and use, hazardous reactions will not occur.
	PCR Primer Index 1	Under normal conditions of storage and use, hazardous reactions will not occur.
PCR Primer Index 2	Under normal conditions of storage and use, hazardous reactions will not occur.	
PCR Primer Index 3	Under normal conditions of storage and use, hazardous reactions will not occur.	

## 10 . Stability and reactivity

PCR Primer Index 4	Under normal conditions of storage and use, hazardous reactions will not occur.
PCR Primer Index 5	Under normal conditions of storage and use, hazardous reactions will not occur.
PCR Primer Index 6	Under normal conditions of storage and use, hazardous reactions will not occur.
PCR Primer Index 7	Under normal conditions of storage and use, hazardous reactions will not occur.
PCR Primer Index 8	Under normal conditions of storage and use, hazardous reactions will not occur.
PCR Primer Index 9	Under normal conditions of storage and use, hazardous reactions will not occur.
PCR Primer Index 10	Under normal conditions of storage and use, hazardous reactions will not occur.
PCR Primer Index 11	Under normal conditions of storage and use, hazardous reactions will not occur.
PCR Primer Index 12	Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid**

: 10X End-Repair Buffer	No specific data.
5X T4 DNA Ligase Buffer	No specific data.
10x Klenow Polymerase Buffer	No specific data.
T4 DNA Ligase	No specific data.
Exo(-) Klenow	No specific data.
T4 DNA Polymerase	No specific data.
Klenow DNA Polymerase	No specific data.
T4 Polynucleotide Kinase	No specific data.
dATP	No specific data.
dNTP Mix	No specific data.
InPE Adapter Oligo Mix	No specific data.
InPE Primer 1.0	No specific data.
PCR Primer Index 1	No specific data.
PCR Primer Index 2	No specific data.
PCR Primer Index 3	No specific data.
PCR Primer Index 4	No specific data.
PCR Primer Index 5	No specific data.
PCR Primer Index 6	No specific data.
PCR Primer Index 7	No specific data.
PCR Primer Index 8	No specific data.
PCR Primer Index 9	No specific data.
PCR Primer Index 10	No specific data.
PCR Primer Index 11	No specific data.
PCR Primer Index 12	No specific data.

**Materials to avoid**

: 10X End-Repair Buffer	No specific data.
5X T4 DNA Ligase Buffer	No specific data.
10x Klenow Polymerase Buffer	No specific data.
T4 DNA Ligase	No specific data.
Exo(-) Klenow	No specific data.
T4 DNA Polymerase	No specific data.
Klenow DNA Polymerase	No specific data.
T4 Polynucleotide Kinase	No specific data.
dATP	No specific data.
dNTP Mix	No specific data.
InPE Adapter Oligo Mix	No specific data.
InPE Primer 1.0	No specific data.
PCR Primer Index 1	No specific data.
PCR Primer Index 2	No specific data.
PCR Primer Index 3	No specific data.
PCR Primer Index 4	No specific data.
PCR Primer Index 5	No specific data.
PCR Primer Index 6	No specific data.
PCR Primer Index 7	No specific data.
PCR Primer Index 8	No specific data.
PCR Primer Index 9	No specific data.
PCR Primer Index 10	No specific data.
PCR Primer Index 11	No specific data.

**10 . Stability and reactivity**

<b>Hazardous decomposition products</b>	PCR Primer Index 12	No specific data.
	: 10X End-Repair Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	5X T4 DNA Ligase Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	10x Klenow Polymerase 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.
	Exo(-) Klenow	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	T4 DNA Polymerase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Klenow DNA Polymerase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	T4 Polynucleotide Kinase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	dATP	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	dNTP Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	InPE Adapter Oligo Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	InPE Primer 1.0	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	PCR Primer Index 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	PCR Primer Index 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	PCR Primer Index 3	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	PCR Primer Index 4	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	PCR Primer Index 5	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	PCR Primer Index 6	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	PCR Primer Index 7	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
PCR Primer Index 8	Under normal conditions of storage and use, hazardous decomposition products should not be produced.	
PCR Primer Index 9	Under normal conditions of storage and use, hazardous decomposition products should not be produced.	
PCR Primer Index 10	Under normal conditions of storage and use,	

## 10 . Stability and reactivity

PCR Primer Index 11	hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
PCR Primer Index 12	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 . Toxicological information

### Potential acute health effects

#### Inhalation

: 10X End-Repair Buffer	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
5X T4 DNA Ligase Buffer	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
10x Klenow Polymerase Buffer	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
T4 DNA Ligase	No known significant effects or critical hazards.
Exo(-) Klenow	No known significant effects or critical hazards.
T4 DNA Polymerase	No known significant effects or critical hazards.
Klenow DNA Polymerase	No known significant effects or critical hazards.
T4 Polynucleotide Kinase	No known significant effects or critical hazards.
dATP	No known significant effects or critical hazards.
dNTP Mix	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
InPE Adapter Oligo Mix	No known significant effects or critical hazards.
InPE Primer 1.0	No known significant effects or critical hazards.
PCR Primer Index 1	No known significant effects or critical hazards.
PCR Primer Index 2	No known significant effects or critical hazards.
PCR Primer Index 3	No known significant effects or critical hazards.
PCR Primer Index 4	No known significant effects or critical hazards.
PCR Primer Index 5	No known significant effects or critical hazards.
PCR Primer Index 6	No known significant effects or critical hazards.
PCR Primer Index 7	No known significant effects or critical hazards.
PCR Primer Index 8	No known significant effects or critical hazards.
PCR Primer Index 9	No known significant effects or critical hazards.
PCR Primer Index 10	No known significant effects or critical hazards.
PCR Primer Index 11	No known significant effects or critical hazards.
PCR Primer Index 12	No known significant effects or critical hazards.

#### Ingestion

: 10X End-Repair Buffer	No known significant effects or critical hazards.
5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
T4 DNA Ligase	No known significant effects or critical hazards.
Exo(-) Klenow	No known significant effects or critical hazards.
T4 DNA Polymerase	No known significant effects or critical hazards.
Klenow DNA Polymerase	No known significant effects or critical hazards.
T4 Polynucleotide Kinase	No known significant effects or critical hazards.
dATP	No known significant effects or critical hazards.
dNTP Mix	No known significant effects or critical hazards.
InPE Adapter Oligo Mix	No known significant effects or critical hazards.
InPE Primer 1.0	No known significant effects or critical hazards.
PCR Primer Index 1	No known significant effects or critical hazards.
PCR Primer Index 2	No known significant effects or critical hazards.
PCR Primer Index 3	No known significant effects or critical hazards.
PCR Primer Index 4	No known significant effects or critical hazards.
PCR Primer Index 5	No known significant effects or critical hazards.
PCR Primer Index 6	No known significant effects or critical hazards.
PCR Primer Index 7	No known significant effects or critical hazards.
PCR Primer Index 8	No known significant effects or critical hazards.
PCR Primer Index 9	No known significant effects or critical hazards.

## 11 . Toxicological information

	PCR Primer Index 10	No known significant effects or critical hazards.
	PCR Primer Index 11	No known significant effects or critical hazards.
	PCR Primer Index 12	No known significant effects or critical hazards.
<b>Skin contact</b>	: 10X End-Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	dNTP Mix	No known significant effects or critical hazards.
	InPE Adapter Oligo Mix	No known significant effects or critical hazards.
	InPE Primer 1.0	No known significant effects or critical hazards.
	PCR Primer Index 1	No known significant effects or critical hazards.
	PCR Primer Index 2	No known significant effects or critical hazards.
	PCR Primer Index 3	No known significant effects or critical hazards.
	PCR Primer Index 4	No known significant effects or critical hazards.
	PCR Primer Index 5	No known significant effects or critical hazards.
	PCR Primer Index 6	No known significant effects or critical hazards.
	PCR Primer Index 7	No known significant effects or critical hazards.
	PCR Primer Index 8	No known significant effects or critical hazards.
	PCR Primer Index 9	No known significant effects or critical hazards.
	PCR Primer Index 10	No known significant effects or critical hazards.
	PCR Primer Index 11	No known significant effects or critical hazards.
	PCR Primer Index 12	No known significant effects or critical hazards.
<b>Eye contact</b>	: 10X End-Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	dNTP Mix	No known significant effects or critical hazards.
	InPE Adapter Oligo Mix	No known significant effects or critical hazards.
	InPE Primer 1.0	No known significant effects or critical hazards.
	PCR Primer Index 1	No known significant effects or critical hazards.
	PCR Primer Index 2	No known significant effects or critical hazards.
	PCR Primer Index 3	No known significant effects or critical hazards.
	PCR Primer Index 4	No known significant effects or critical hazards.
	PCR Primer Index 5	No known significant effects or critical hazards.
	PCR Primer Index 6	No known significant effects or critical hazards.
	PCR Primer Index 7	No known significant effects or critical hazards.
	PCR Primer Index 8	No known significant effects or critical hazards.
	PCR Primer Index 9	No known significant effects or critical hazards.
	PCR Primer Index 10	No known significant effects or critical hazards.
	PCR Primer Index 11	No known significant effects or critical hazards.
	PCR Primer Index 12	No known significant effects or critical hazards.

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>T4 DNA Ligase</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>Exo(-) Klenow</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>T4 DNA Polymerase</b> Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>Klenow DNA Polymerase</b>				

## 11 . Toxicological information

Glycerol	LD50 Oral	Rat	12600 mg/kg	-
<b>T4 Polynucleotide Kinase</b>				

**Conclusion/Summary** : Not available.

### Potential chronic health effects

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>5X T4 DNA Ligase Buffer</b> Polyethylene glycol	Eyes - Mild irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
<b>T4 DNA Ligase</b> Glycerol	Eyes - Mild irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
<b>Exo(-) Klenow</b> Glycerol	Eyes - Mild irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
<b>T4 DNA Polymerase</b> Glycerol	Eyes - Mild irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
<b>Klenow DNA Polymerase</b> Glycerol	Eyes - Mild irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
<b>T4 Polynucleotide Kinase</b> Glycerol	Eyes - Mild irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-

**Conclusion/Summary** : Not available.

#### Sensitiser

**Conclusion/Summary** : Not available.

#### Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

<b>Chronic effects</b>	: 10X End-Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	dNTP Mix	No known significant effects or critical hazards.
	InPE Adapter Oligo Mix	No known significant effects or critical hazards.
	InPE Primer 1.0	No known significant effects or critical hazards.
	PCR Primer Index 1	No known significant effects or critical hazards.
	PCR Primer Index 2	No known significant effects or critical hazards.
	PCR Primer Index 3	No known significant effects or critical hazards.
	PCR Primer Index 4	No known significant effects or critical hazards.
	PCR Primer Index 5	No known significant effects or critical hazards.
	PCR Primer Index 6	No known significant effects or critical hazards.
	PCR Primer Index 7	No known significant effects or critical hazards.
	PCR Primer Index 8	No known significant effects or critical hazards.
	PCR Primer Index 9	No known significant effects or critical hazards.
	PCR Primer Index 10	No known significant effects or critical hazards.
	PCR Primer Index 11	No known significant effects or critical hazards.
	PCR Primer Index 12	No known significant effects or critical hazards.



## 11 . Toxicological information

	PCR Primer Index 6	No known significant effects or critical hazards.
	PCR Primer Index 7	No known significant effects or critical hazards.
	PCR Primer Index 8	No known significant effects or critical hazards.
	PCR Primer Index 9	No known significant effects or critical hazards.
	PCR Primer Index 10	No known significant effects or critical hazards.
	PCR Primer Index 11	No known significant effects or critical hazards.
	PCR Primer Index 12	No known significant effects or critical hazards.
<b>Developmental effects</b>	: 10X End-Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	dNTP Mix	No known significant effects or critical hazards.
	InPE Adapter Oligo Mix	No known significant effects or critical hazards.
	InPE Primer 1.0	No known significant effects or critical hazards.
	PCR Primer Index 1	No known significant effects or critical hazards.
	PCR Primer Index 2	No known significant effects or critical hazards.
	PCR Primer Index 3	No known significant effects or critical hazards.
	PCR Primer Index 4	No known significant effects or critical hazards.
	PCR Primer Index 5	No known significant effects or critical hazards.
	PCR Primer Index 6	No known significant effects or critical hazards.
	PCR Primer Index 7	No known significant effects or critical hazards.
	PCR Primer Index 8	No known significant effects or critical hazards.
	PCR Primer Index 9	No known significant effects or critical hazards.
	PCR Primer Index 10	No known significant effects or critical hazards.
	PCR Primer Index 11	No known significant effects or critical hazards.
	PCR Primer Index 12	No known significant effects or critical hazards.
<b>Fertility effects</b>	: 10X End-Repair Buffer	No known significant effects or critical hazards.
	5X T4 DNA Ligase Buffer	No known significant effects or critical hazards.
	10x Klenow Polymerase Buffer	No known significant effects or critical hazards.
	T4 DNA Ligase	No known significant effects or critical hazards.
	Exo(-) Klenow	No known significant effects or critical hazards.
	T4 DNA Polymerase	No known significant effects or critical hazards.
	Klenow DNA Polymerase	No known significant effects or critical hazards.
	T4 Polynucleotide Kinase	No known significant effects or critical hazards.
	dATP	No known significant effects or critical hazards.
	dNTP Mix	No known significant effects or critical hazards.
	InPE Adapter Oligo Mix	No known significant effects or critical hazards.
	InPE Primer 1.0	No known significant effects or critical hazards.
	PCR Primer Index 1	No known significant effects or critical hazards.
	PCR Primer Index 2	No known significant effects or critical hazards.
	PCR Primer Index 3	No known significant effects or critical hazards.
	PCR Primer Index 4	No known significant effects or critical hazards.
	PCR Primer Index 5	No known significant effects or critical hazards.
	PCR Primer Index 6	No known significant effects or critical hazards.
	PCR Primer Index 7	No known significant effects or critical hazards.
	PCR Primer Index 8	No known significant effects or critical hazards.
	PCR Primer Index 9	No known significant effects or critical hazards.
	PCR Primer Index 10	No known significant effects or critical hazards.
	PCR Primer Index 11	No known significant effects or critical hazards.
	PCR Primer Index 12	No known significant effects or critical hazards.
<b><u>Over-exposure signs/symptoms</u></b>		
<b>Inhalation</b>	: 10X End-Repair Buffer	No specific data.
	5X T4 DNA Ligase Buffer	No specific data.
	10x Klenow Polymerase Buffer	No specific data.
	T4 DNA Ligase	No specific data.
	Exo(-) Klenow	No specific data.
	T4 DNA Polymerase	No specific data.
	Klenow DNA Polymerase	No specific data.
	T4 Polynucleotide Kinase	No specific data.



**11 . Toxicological information**

	dATP	No specific data.
	dNTP Mix	No specific data.
	InPE Adapter Oligo Mix	No specific data.
	InPE Primer 1.0	No specific data.
	PCR Primer Index 1	No specific data.
	PCR Primer Index 2	No specific data.
	PCR Primer Index 3	No specific data.
	PCR Primer Index 4	No specific data.
	PCR Primer Index 5	No specific data.
	PCR Primer Index 6	No specific data.
	PCR Primer Index 7	No specific data.
	PCR Primer Index 8	No specific data.
	PCR Primer Index 9	No specific data.
	PCR Primer Index 10	No specific data.
	PCR Primer Index 11	No specific data.
	PCR Primer Index 12	No specific data.
<b>Ingestion</b>	: 10X End-Repair Buffer	No specific data.
	5X T4 DNA Ligase Buffer	No specific data.
	10x Klenow Polymerase Buffer	No specific data.
	T4 DNA Ligase	No specific data.
	Exo(-) Klenow	No specific data.
	T4 DNA Polymerase	No specific data.
	Klenow DNA Polymerase	No specific data.
	T4 Polynucleotide Kinase	No specific data.
	dATP	No specific data.
	dNTP Mix	No specific data.
	InPE Adapter Oligo Mix	No specific data.
	InPE Primer 1.0	No specific data.
	PCR Primer Index 1	No specific data.
	PCR Primer Index 2	No specific data.
	PCR Primer Index 3	No specific data.
	PCR Primer Index 4	No specific data.
	PCR Primer Index 5	No specific data.
	PCR Primer Index 6	No specific data.
	PCR Primer Index 7	No specific data.
	PCR Primer Index 8	No specific data.
	PCR Primer Index 9	No specific data.
	PCR Primer Index 10	No specific data.
	PCR Primer Index 11	No specific data.
	PCR Primer Index 12	No specific data.
<b>Skin</b>	: 10X End-Repair Buffer	No specific data.
	5X T4 DNA Ligase Buffer	No specific data.
	10x Klenow Polymerase Buffer	No specific data.
	T4 DNA Ligase	No specific data.
	Exo(-) Klenow	No specific data.
	T4 DNA Polymerase	No specific data.
	Klenow DNA Polymerase	No specific data.
	T4 Polynucleotide Kinase	No specific data.
	dATP	No specific data.
	dNTP Mix	No specific data.
	InPE Adapter Oligo Mix	No specific data.
	InPE Primer 1.0	No specific data.
	PCR Primer Index 1	No specific data.
	PCR Primer Index 2	No specific data.
	PCR Primer Index 3	No specific data.
	PCR Primer Index 4	No specific data.
	PCR Primer Index 5	No specific data.
	PCR Primer Index 6	No specific data.
	PCR Primer Index 7	No specific data.
	PCR Primer Index 8	No specific data.
	PCR Primer Index 9	No specific data.
	PCR Primer Index 10	No specific data.
	PCR Primer Index 11	No specific data.
	PCR Primer Index 12	No specific data.

## 11 . Toxicological information

<b>Eyes</b>	: 10X End-Repair Buffer	No specific data.
	5X T4 DNA Ligase Buffer	No specific data.
	10x Klenow Polymerase Buffer	No specific data.
	T4 DNA Ligase	No specific data.
	Exo(-) Klenow	No specific data.
	T4 DNA Polymerase	No specific data.
	Klenow DNA Polymerase	No specific data.
	T4 Polynucleotide Kinase	No specific data.
	dATP	No specific data.
	dNTP Mix	No specific data.
	InPE Adapter Oligo Mix	No specific data.
	InPE Primer 1.0	No specific data.
	PCR Primer Index 1	No specific data.
	PCR Primer Index 2	No specific data.
	PCR Primer Index 3	No specific data.
	PCR Primer Index 4	No specific data.
	PCR Primer Index 5	No specific data.
	PCR Primer Index 6	No specific data.
	PCR Primer Index 7	No specific data.
	PCR Primer Index 8	No specific data.
	PCR Primer Index 9	No specific data.
	PCR Primer Index 10	No specific data.
	PCR Primer Index 11	No specific data.
	PCR Primer Index 12	No specific data.
<b>Other adverse symptoms</b>	: 10X End-Repair Buffer	Not available.
	5X T4 DNA Ligase Buffer	Not available.
	10x Klenow Polymerase Buffer	Not available.
	T4 DNA Ligase	Not available.
	Exo(-) Klenow	Not available.
	T4 DNA Polymerase	Not available.
	Klenow DNA Polymerase	Not available.
	T4 Polynucleotide Kinase	Not available.
	dATP	Not available.
	dNTP Mix	Not available.
	InPE Adapter Oligo Mix	Not available.
	InPE Primer 1.0	Not available.
	PCR Primer Index 1	Not available.
	PCR Primer Index 2	Not available.
	PCR Primer Index 3	Not available.
	PCR Primer Index 4	Not available.
	PCR Primer Index 5	Not available.
	PCR Primer Index 6	Not available.
	PCR Primer Index 7	Not available.
	PCR Primer Index 8	Not available.
	PCR Primer Index 9	Not available.
	PCR Primer Index 10	Not available.
	PCR Primer Index 11	Not available.
	PCR Primer Index 12	Not available.
<b>Target organs</b>	: 10X End-Repair Buffer	Contains material which may cause damage to the following organs: upper respiratory tract, skin, eyes.
	5X T4 DNA Ligase Buffer	Contains material which may cause damage to the following organs: upper respiratory tract, skin, eyes.
	10x Klenow Polymerase Buffer	Contains material which may cause damage to the following organs: upper respiratory tract, skin, eyes.
	T4 DNA Ligase	Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eye, lens or cornea.
	Exo(-) Klenow	Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eye, lens or cornea.
	T4 DNA Polymerase	Contains material which may cause damage to the following organs: kidneys, upper respiratory

## 11 . Toxicological information

Klenow DNA Polymerase	tract, skin, eye, lens or cornea. Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eye, lens or cornea.
T4 Polynucleotide Kinase	Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eye, lens or cornea.
dATP	Not available.
dNTP Mix	Not available.
InPE Adapter Oligo Mix	Not available.
InPE Primer 1.0	Not available.
PCR Primer Index 1	Not available.
PCR Primer Index 2	Not available.
PCR Primer Index 3	Not available.
PCR Primer Index 4	Not available.
PCR Primer Index 5	Not available.
PCR Primer Index 6	Not available.
PCR Primer Index 7	Not available.
PCR Primer Index 8	Not available.
PCR Primer Index 9	Not available.
PCR Primer Index 10	Not available.
PCR Primer Index 11	Not available.
PCR Primer Index 12	Not available.

## 12 . Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
<b>5X T4 DNA Ligase Buffer</b> Polyethylene glycol	Acute LC50 >1000000 ug/L Fresh water	Fish - Salmo salar - Parr - 8.2 to 11.7 cm - 5.1 to 14.1 g	96 hours
<b>T4 DNA Ligase</b> Glycerol	Acute LC50 54 to 57 ml/L Fresh water	Fish - Oncorhynchus mykiss - 0.9 g	96 hours
<b>Exo(-) Klenow</b> Glycerol	Acute LC50 54 to 57 ml/L Fresh water	Fish - Oncorhynchus mykiss - 0.9 g	96 hours
<b>T4 DNA Polymerase</b> Glycerol	Acute LC50 54 to 57 ml/L Fresh water	Fish - Oncorhynchus mykiss - 0.9 g	96 hours
<b>Klenow DNA Polymerase</b> Glycerol	Acute LC50 54 to 57 ml/L Fresh water	Fish - Oncorhynchus mykiss - 0.9 g	96 hours
<b>T4 Polynucleotide Kinase</b> Glycerol	Acute LC50 54 to 57 ml/L Fresh water	Fish - Oncorhynchus mykiss - 0.9 g	96 hours

### Other ecological information

#### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>T4 DNA Ligase</b> Glycerol	-1.76	-	low
<b>Exo(-) Klenow</b> Glycerol	-1.76	-	low
<b>T4 DNA Polymerase</b>			

## 12 . Ecological information

Glycerol	-1.76	-	low
<b>Klenow DNA Polymerase</b> Glycerol	-1.76	-	low
<b>T4 Polynucleotide Kinase</b> Glycerol	-1.76	-	low

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

## 13 . Disposal considerations

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## 14 . Transport information

**Regulatory information**

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

## 15 . Regulatory information

**Standard for the Uniform Scheduling of Drugs and Poisons**

6

**Control of Scheduled Carcinogenic Substances**

<u>Ingredient name</u>	<u>Schedule</u>
No listed substance	

**Australia inventory (AICS)** : At least one component is not listed.

## 16 . Other information

**Date of issue** : 18/07/2011

**Date of previous issue** : 14/04/2011.

☑ Indicates information that has changed from previously issued version.

**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.