

SAFETY DATA SHEET

Lambda DNA Purification Kit, Part Number 200392

Section 1. Identification

1.1 Product identifier

Product name	: Lambda DNA Purification Kit, Part Number 200392	
Part no. (chemical kit)	: 200392	
Part no.	<input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A Lambda DNA Purification Kit DNase I Lambda DNA Purification Kit Pronase Lambda DNA Purification Kit 80% DEAE - Cellulose Lambda DNA Purification Kit CTAB 5% Lambda DNA Purification Kit 0.5 M EDTA pH=8.0 Lambda DNA Purification Kit NaCl 1.2 M Lambda DNA Purification Kit Glycogen	200391-52 200391-53 200391-55 200391-22 200391-71 200391-24 200391-26 200391-57

Validation date : 6/29/2018

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

Material uses	: Analytical reagent.	
	<input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A Lambda DNA Purification Kit DNase I Lambda DNA Purification Kit Pronase Lambda DNA Purification Kit 80% DEAE - Cellulose Lambda DNA Purification Kit CTAB 5% Lambda DNA Purification Kit 0.5 M EDTA pH=8.0 Lambda DNA Purification Kit NaCl 1.2 M Lambda DNA Purification Kit Glycogen	2 x 0.2 ml (2 mg/ml) 2 x 0.05 ml (20 mg/ml) 2 x 0.77 ml (50 mg/ml) 25 ml (1.2 M) 2 x 1.5 ml 2 x 2 ml 2 x 10 ml 2 x 0.075 ml (20 mg/ml)

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

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

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status	<input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A Lambda DNA Purification Kit DNase I Lambda DNA Purification Kit Pronase Lambda DNA Purification Kit 80% DEAE - Cellulose Lambda DNA Purification Kit CTAB 5%	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
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Section 2. Hazards identification

Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Lambda DNA Purification Kit NaCl 1.2 M	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Lambda DNA Purification Kit Glycogen	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

Lambda DNA Purification Kit

RNase A

H334

RESPIRATORY SENSITIZATION - Category 1

Lambda DNA Purification Kit

DNase I

H334

RESPIRATORY SENSITIZATION - Category 1

Lambda DNA Purification Kit

Pronase

H334

H402

RESPIRATORY SENSITIZATION - Category 1

AQUATIC HAZARD (ACUTE) - Category 3

Lambda DNA Purification Kit

80% DEAE - Cellulose

H334

RESPIRATORY SENSITIZATION - Category 1

Lambda DNA Purification Kit

CTAB 5%

H400

H410

AQUATIC HAZARD (ACUTE) - Category 1

AQUATIC HAZARD (LONG-TERM) - Category 1

Ingredients of unknown toxicity

Lambda DNA Purification Kit RNase A	Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10%
Lambda DNA Purification Kit DNase I	Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10%
Lambda DNA Purification Kit Pronase	Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10%

Section 2. Hazards identification

Lambda DNA Purification Kit 80% DEAE - Cellulose	Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: > 60% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: > 60% Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: > 60%
Lambda DNA Purification Kit CTAB 5%	Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10%
Lambda DNA Purification Kit NaCl 1.2 M	Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10%
Lambda DNA Purification Kit Glycogen	Percentage of the mixture consisting of ingredient (s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient (s) of unknown oral toxicity: 1 - 10%
☒ Lambda DNA Purification Kit RNase A	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 1.6%
Lambda DNA Purification Kit DNase I	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 2%
Lambda DNA Purification Kit Pronase	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 6.6%
Lambda DNA Purification Kit 80% DEAE - Cellulose	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 80%
Lambda DNA Purification Kit Glycogen	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 2%

2.2 GHS label elements

Hazard pictograms

☒ Lambda DNA Purification Kit RNase A	
Lambda DNA Purification Kit DNase I	
Lambda DNA Purification Kit Pronase	
Lambda DNA Purification Kit 80% DEAE - Cellulose	
Lambda DNA Purification Kit CTAB 5%	

Section 2. Hazards identification

Signal word	:	Lambda DNA Purification Kit RNase A	Danger		
		Lambda DNA Purification Kit DNase I	Danger		
		Lambda DNA Purification Kit Pronase	Danger		
		Lambda DNA Purification Kit 80% DEAE - Cellulose	Danger		
		Lambda DNA Purification Kit CTAB 5%	Warning		
		Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	No signal word.		
		Lambda DNA Purification Kit NaCl 1.2 M	No signal word.		
		Lambda DNA Purification Kit Glycogen	No signal word.		
		Hazard statements	:	Lambda DNA Purification Kit RNase A	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
				Lambda DNA Purification Kit DNase I	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
				Lambda DNA Purification Kit Pronase	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H402 - Harmful to aquatic life.
Lambda DNA Purification Kit 80% DEAE - Cellulose	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.				
Lambda DNA Purification Kit CTAB 5%	H410 - Very toxic to aquatic life with long lasting effects.				
Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	No known significant effects or critical hazards.				
Lambda DNA Purification Kit NaCl 1.2 M	No known significant effects or critical hazards.				
Lambda DNA Purification Kit Glycogen	No known significant effects or critical hazards.				
Precautionary statements	:			Lambda DNA Purification Kit RNase A	P284 - Wear respiratory protection.
				Lambda DNA Purification Kit DNase I	P261 - Avoid breathing vapor. P284 - Wear respiratory protection.
				Lambda DNA Purification Kit Pronase	P261 - Avoid breathing vapor. P284 - Wear respiratory protection.
		Lambda DNA Purification Kit 80% DEAE - Cellulose	P273 - Avoid release to the environment. P261 - Avoid breathing vapor. P284 - Wear respiratory protection.		
		Lambda DNA Purification Kit CTAB 5%	P261 - Avoid breathing vapor. P273 - Avoid release to the environment.		
		Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not applicable.		
		Lambda DNA Purification Kit NaCl 1.2 M	Not applicable.		
		Lambda DNA Purification Kit Glycogen	Not applicable.		
		Prevention	:	Lambda DNA Purification Kit RNase A	P284 - Wear respiratory protection.
				Lambda DNA Purification Kit DNase I	P261 - Avoid breathing vapor. P284 - Wear respiratory protection.
				Lambda DNA Purification Kit Pronase	P261 - Avoid breathing vapor. P284 - Wear respiratory protection.
Lambda DNA Purification Kit 80% DEAE - Cellulose	P273 - Avoid release to the environment. P261 - Avoid breathing vapor. P284 - Wear respiratory protection.				
Lambda DNA Purification Kit CTAB 5%	P261 - Avoid breathing vapor. P273 - Avoid release to the environment.				
Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not applicable.				
Lambda DNA Purification Kit NaCl 1.2 M	Not applicable.				
Lambda DNA Purification Kit Glycogen	Not applicable.				

Section 2. Hazards identification

Response	:	☑ Lambda DNA Purification Kit RNase A	P304 + P341 (OSHA) - IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.	
		Lambda DNA Purification Kit DNase I	P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or physician. P304 + P341 (OSHA) - IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.	
		Lambda DNA Purification Kit Pronase	P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or physician. P304 + P341 (OSHA) - IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.	
		Lambda DNA Purification Kit 80% DEAE - Cellulose	P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or physician. P304 + P341 (OSHA) - IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.	
		Lambda DNA Purification Kit CTAB 5%	P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or physician. P391 - Collect spillage.	
		Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not applicable.	
		Lambda DNA Purification Kit NaCl 1.2 M	Not applicable.	
		Lambda DNA Purification Kit Glycogen	Not applicable.	
	Storage	:	☑ Lambda DNA Purification Kit RNase A	Not applicable.
			Lambda DNA Purification Kit DNase I	Not applicable.
		Lambda DNA Purification Kit Pronase	Not applicable.	
		Lambda DNA Purification Kit 80% DEAE - Cellulose	Not applicable.	
		Lambda DNA Purification Kit CTAB 5%	Not applicable.	
		Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not applicable.	
		Lambda DNA Purification Kit NaCl 1.2 M	Not applicable.	
		Lambda DNA Purification Kit Glycogen	Not applicable.	
Disposal		:	☑ Lambda DNA Purification Kit RNase A	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
			Lambda DNA Purification Kit DNase I	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
		Lambda DNA Purification Kit Pronase	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
		Lambda DNA Purification Kit 80% DEAE - Cellulose	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
		Lambda DNA Purification Kit CTAB 5%	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	

Section 2. Hazards identification

Supplemental label elements

		international regulations.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not applicable.
	Lambda DNA Purification Kit NaCl 1.2 M	Not applicable.
	Lambda DNA Purification Kit Glycogen	Not applicable.
:	Lambda DNA Purification Kit RNase A	None known.
	Lambda DNA Purification Kit DNase I	None known.
	Lambda DNA Purification Kit Pronase	None known.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	None known.
	Lambda DNA Purification Kit CTAB 5%	None known.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	None known.
	Lambda DNA Purification Kit NaCl 1.2 M	None known.
	Lambda DNA Purification Kit Glycogen	None known.

2.3 Other hazards

Hazards not otherwise classified

:	Lambda DNA Purification Kit RNase A	None known.
	Lambda DNA Purification Kit DNase I	None known.
	Lambda DNA Purification Kit Pronase	None known.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	None known.
	Lambda DNA Purification Kit CTAB 5%	None known.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	None known.
	Lambda DNA Purification Kit NaCl 1.2 M	None known.
	Lambda DNA Purification Kit Glycogen	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	Lambda DNA Purification Kit RNase A	Mixture
		Lambda DNA Purification Kit DNase I	Mixture
		Lambda DNA Purification Kit Pronase	Mixture
		Lambda DNA Purification Kit 80% DEAE - Cellulose	Mixture
		Lambda DNA Purification Kit CTAB 5%	Mixture
		Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Mixture
		Lambda DNA Purification Kit NaCl 1.2 M	Mixture
		Lambda DNA Purification Kit Glycogen	Mixture

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Lambda DNA Purification Kit RNase A 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride Nuclease, ribo-	≤3 ≤0.3	1185-53-1 9001-99-4
Lambda DNA Purification Kit DNase I Nuclease, deoxyribo-	≤3	9003-98-9
Lambda DNA Purification Kit Pronase Proteinase, Streptomyces griseus 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride Sodium dodecyl sulphate	≤7.6 ≤2.3 <1	9036-06-0 1185-53-1 151-21-3
Lambda DNA Purification Kit 80% DEAE - Cellulose Phosphatase	≥75 - ≤90	9013-05-2
Lambda DNA Purification Kit CTAB 5% Cetrimonium bromide Sodium chloride	≤6.3 ≤3	57-09-0 7647-14-5
Lambda DNA Purification Kit NaCl 1.2 M Sodium chloride	<10	7647-14-5

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

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

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

Section 4. First aid measures


4.1 Description of necessary first aid measures

Eye contact	: Lambda DNA Purification Kit RNase A	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
	Lambda DNA Purification Kit DNase I	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
	Lambda DNA Purification Kit Pronase	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
	Lambda DNA Purification Kit CTAB 5%	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
	Lambda DNA Purification Kit 0.5	Immediately flush eyes with plenty of water,


Section 4. First aid measures

	M EDTA pH=8.0	occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Lambda DNA Purification Kit NaCl 1.2 M	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.
	Lambda DNA Purification Kit Glycogen	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Lambda DNA Purification Kit RNase A	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.
	Lambda DNA Purification Kit DNase I	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In the event of any complaints or symptoms, avoid further exposure.
	Lambda DNA Purification Kit Pronase	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get

Section 4. First aid measures

		<p>medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.</p>
	<p>Lambda DNA Purification Kit 80% DEAE - Cellulose</p>	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In the event of any complaints or symptoms, avoid further exposure.</p>
	<p>Lambda DNA Purification Kit CTAB 5%</p>	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</p>
	<p>Lambda DNA Purification Kit 0.5 M EDTA pH=8.0</p>	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p>
	<p>Lambda DNA Purification Kit NaCl 1.2 M</p>	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p>
	<p>Lambda DNA Purification Kit Glycogen</p>	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</p>
<p>Skin contact</p>	<p>:  Lambda DNA Purification Kit RNase A</p>	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p>
	<p>Lambda DNA Purification Kit DNase I</p>	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p>

Section 4. First aid measures

	<p>Lambda DNA Purification Kit Pronase</p>	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p>
	<p>Lambda DNA Purification Kit 80% DEAE - Cellulose</p>	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p>
	<p>Lambda DNA Purification Kit CTAB 5%</p>	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p>
	<p>Lambda DNA Purification Kit 0.5 M EDTA pH=8.0</p>	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p>
	<p>Lambda DNA Purification Kit NaCl 1.2 M</p>	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p>
	<p>Lambda DNA Purification Kit Glycogen</p>	<p>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</p>
<p>Ingestion</p>	<p>:  Lambda DNA Purification Kit RNase A</p>	<p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p>
	<p>Lambda DNA Purification Kit DNase I</p>	<p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p>
	<p>Lambda DNA Purification Kit Pronase</p>	<p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has</p>

Section 4. First aid measures

Lambda DNA Purification Kit 80%
DEAE - Cellulose

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

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

Lambda DNA Purification Kit
CTAB 5%

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

Lambda DNA Purification Kit 0.5
M EDTA pH=8.0

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.

Lambda DNA Purification Kit NaCl
1.2 M

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.

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Lambda DNA Purification Kit
Glycogen

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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A	No known significant effects or critical hazards.
Lambda DNA Purification Kit DNase I	No known significant effects or critical hazards.
Lambda DNA Purification Kit Pronase	No known significant effects or critical hazards.
Lambda DNA Purification Kit 80% DEAE - Cellulose	No known significant effects or critical hazards.
Lambda DNA Purification Kit CTAB 5%	No known significant effects or critical hazards.
Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	No known significant effects or critical hazards.
Lambda DNA Purification Kit NaCl 1.2 M	No known significant effects or critical hazards.
Lambda DNA Purification Kit Glycogen	No known significant effects or critical hazards.

Inhalation

: <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Lambda DNA Purification Kit DNase I	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Lambda DNA Purification Kit Pronase	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Lambda DNA Purification Kit 80% DEAE - Cellulose	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Lambda DNA Purification Kit CTAB 5%	No known significant effects or critical hazards.
Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	No known significant effects or critical hazards.
Lambda DNA Purification Kit NaCl 1.2 M	No known significant effects or critical hazards.
Lambda DNA Purification Kit Glycogen	No known significant effects or critical hazards.

Skin contact

: <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A	No known significant effects or critical hazards.
Lambda DNA Purification Kit DNase I	No known significant effects or critical hazards.
Lambda DNA Purification Kit Pronase	No known significant effects or critical hazards.
Lambda DNA Purification Kit 80% DEAE - Cellulose	No known significant effects or critical hazards.
Lambda DNA Purification Kit CTAB 5%	No known significant effects or critical hazards.
Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	No known significant effects or critical hazards.
Lambda DNA Purification Kit NaCl 1.2 M	No known significant effects or critical hazards.
Lambda DNA Purification Kit	No known significant effects or critical hazards.

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Ingestion	: <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A	No known significant effects or critical hazards.
	Lambda DNA Purification Kit DNase I	No known significant effects or critical hazards.
	Lambda DNA Purification Kit Pronase	No known significant effects or critical hazards.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	No known significant effects or critical hazards.
	Lambda DNA Purification Kit CTAB 5%	No known significant effects or critical hazards.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	No known significant effects or critical hazards.
	Lambda DNA Purification Kit NaCl 1.2 M	No known significant effects or critical hazards.
	Lambda DNA Purification Kit Glycogen	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A	No specific data.
	Lambda DNA Purification Kit DNase I	No specific data.
	Lambda DNA Purification Kit Pronase	No specific data.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	No specific data.
	Lambda DNA Purification Kit CTAB 5%	No specific data.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	No specific data.
	Lambda DNA Purification Kit NaCl 1.2 M	No specific data.
	Lambda DNA Purification Kit Glycogen	No specific data.

Inhalation	: <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A	Adverse symptoms may include the following: wheezing and breathing difficulties asthma
	Lambda DNA Purification Kit DNase I	Adverse symptoms may include the following: wheezing and breathing difficulties asthma
	Lambda DNA Purification Kit Pronase	Adverse symptoms may include the following: wheezing and breathing difficulties asthma
	Lambda DNA Purification Kit 80% DEAE - Cellulose	Adverse symptoms may include the following: wheezing and breathing difficulties asthma
	Lambda DNA Purification Kit CTAB 5%	No specific data.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	No specific data.
	Lambda DNA Purification Kit NaCl 1.2 M	No specific data.
	Lambda DNA Purification Kit	No specific data.

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	Glycogen	
Skin contact	: Lambda DNA Purification Kit RNase A	No specific data.
	Lambda DNA Purification Kit DNase I	No specific data.
	Lambda DNA Purification Kit Pronase	No specific data.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	No specific data.
	Lambda DNA Purification Kit CTAB 5%	No specific data.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	No specific data.
	Lambda DNA Purification Kit NaCl 1.2 M	No specific data.
	Lambda DNA Purification Kit Glycogen	No specific data.
Ingestion	: Lambda DNA Purification Kit RNase A	No specific data.
	Lambda DNA Purification Kit DNase I	No specific data.
	Lambda DNA Purification Kit Pronase	No specific data.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	No specific data.
	Lambda DNA Purification Kit CTAB 5%	No specific data.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	No specific data.
	Lambda DNA Purification Kit NaCl 1.2 M	No specific data.
	Lambda DNA Purification Kit Glycogen	No specific data.

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

Notes to physician	: Lambda DNA Purification Kit RNase A	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.
	Lambda DNA Purification Kit DNase I	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Lambda DNA Purification Kit Pronase	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.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Lambda DNA Purification Kit CTAB 5%	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.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Lambda DNA Purification Kit NaCl	Treat symptomatically. Contact poison treatment

Section 4. First aid measures

	1.2 M	specialist immediately if large quantities have been ingested or inhaled.
	Lambda DNA Purification Kit Glycogen	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Lambda DNA Purification Kit RNase A	No specific treatment.
	Lambda DNA Purification Kit DNase I	No specific treatment.
	Lambda DNA Purification Kit Pronase	No specific treatment.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	No specific treatment.
	Lambda DNA Purification Kit CTAB 5%	No specific treatment.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	No specific treatment.
	Lambda DNA Purification Kit NaCl 1.2 M	No specific treatment.
	Lambda DNA Purification Kit Glycogen	No specific treatment.
Protection of first-aiders	: Lambda DNA Purification Kit RNase A	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Lambda DNA Purification Kit DNase I	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Lambda DNA Purification Kit Pronase	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Lambda DNA Purification Kit CTAB 5%	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	No action shall be taken involving any personal risk or without suitable training.
	Lambda DNA Purification Kit NaCl 1.2 M	No action shall be taken involving any personal risk or without suitable training.
	Lambda DNA Purification Kit Glycogen	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media


Suitable extinguishing media	: <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A	Use an extinguishing agent suitable for the surrounding fire.	
	Lambda DNA Purification Kit DNase I	Use an extinguishing agent suitable for the surrounding fire.	
	Lambda DNA Purification Kit Pronase	Use an extinguishing agent suitable for the surrounding fire.	
	Lambda DNA Purification Kit 80% DEAE - Cellulose	Use an extinguishing agent suitable for the surrounding fire.	
	Lambda DNA Purification Kit CTAB 5%	Use an extinguishing agent suitable for the surrounding fire.	
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Use an extinguishing agent suitable for the surrounding fire.	
	Lambda DNA Purification Kit NaCl 1.2 M	Use an extinguishing agent suitable for the surrounding fire.	
	Lambda DNA Purification Kit Glycogen	Use an extinguishing agent suitable for the surrounding fire.	
	Unsuitable extinguishing media	: <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A	None known.
		Lambda DNA Purification Kit DNase I	None known.
Lambda DNA Purification Kit Pronase		None known.	
Lambda DNA Purification Kit 80% DEAE - Cellulose		None known.	
Lambda DNA Purification Kit CTAB 5%		None known.	
Lambda DNA Purification Kit 0.5 M EDTA pH=8.0		None known.	
Lambda DNA Purification Kit NaCl 1.2 M		None known.	
Lambda DNA Purification Kit Glycogen		None known.	

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A	In a fire or if heated, a pressure increase will occur and the container may burst.
	Lambda DNA Purification Kit DNase I	In a fire or if heated, a pressure increase will occur and the container may burst.
	Lambda DNA Purification Kit Pronase	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	In a fire or if heated, a pressure increase will occur and the container may burst.
	Lambda DNA Purification Kit CTAB 5%	In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	In a fire or if heated, a pressure increase will occur and the container may burst.
	Lambda DNA Purification Kit NaCl 1.2 M	In a fire or if heated, a pressure increase will occur and the container may burst.


Section 5. Fire-fighting measures

Hazardous thermal decomposition products

Lambda DNA Purification Kit Glycogen :  Lambda DNA Purification Kit RNase A	In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
Lambda DNA Purification Kit DNase I	Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides
Lambda DNA Purification Kit Pronase	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
Lambda DNA Purification Kit 80% DEAE - Cellulose	Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides
Lambda DNA Purification Kit CTAB 5%	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
Lambda DNA Purification Kit 0.5 M EDTA pH=8.0 Lambda DNA Purification Kit NaCl 1.2 M	No specific data. Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
Lambda DNA Purification Kit Glycogen	Decomposition products may include the following materials: carbon dioxide carbon monoxide

5.3 Advice for firefighters

Special protective actions for fire-fighters

:  Lambda DNA Purification Kit RNase A	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.
Lambda DNA Purification Kit DNase I	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Lambda DNA Purification Kit Pronase	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.
Lambda DNA Purification Kit 80% DEAE - Cellulose	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

Section 5. Fire-fighting measures

	Lambda DNA Purification Kit CTAB 5%	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.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	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.
	Lambda DNA Purification Kit NaCl 1.2 M	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.
	Lambda DNA Purification Kit Glycogen	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Lambda DNA Purification Kit RNase A	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Lambda DNA Purification Kit DNase I	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Lambda DNA Purification Kit Pronase	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Lambda DNA Purification Kit CTAB 5%	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Lambda DNA Purification Kit NaCl 1.2 M	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Lambda DNA Purification Kit Glycogen	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

[6.1 Personal precautions, protective equipment and emergency procedures](#)

Section 6. Accidental release measures

For non-emergency personnel

: Lambda DNA Purification Kit RNase A

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

Lambda DNA Purification Kit DNase I

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

Lambda DNA Purification Kit Pronase

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

Lambda DNA Purification Kit 80% DEAE - Cellulose

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

Lambda DNA Purification Kit CTAB 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Lambda DNA Purification Kit 0.5 M EDTA pH=8.0

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 spilled material. Put on appropriate personal protective equipment.

Lambda DNA Purification Kit NaCl 1.2 M

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

Lambda DNA Purification Kit Glycogen

No action shall be taken involving any personal risk or without suitable training. Evacuate

Section 6. Accidental release measures


		<p>surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</p>
<p>For emergency responders</p>	<p>:  Lambda DNA Purification Kit RNase A</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
	<p>Lambda DNA Purification Kit DNase I</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
	<p>Lambda DNA Purification Kit Pronase</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
	<p>Lambda DNA Purification Kit 80% DEAE - Cellulose</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
	<p>Lambda DNA Purification Kit CTAB 5%</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
	<p>Lambda DNA Purification Kit 0.5 M EDTA pH=8.0</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
	<p>Lambda DNA Purification Kit NaCl 1.2 M</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
	<p>Lambda DNA Purification Kit Glycogen</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
<p>6.2 Environmental precautions</p>	<p>:  Lambda DNA Purification Kit RNase A</p>	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
	<p>Lambda DNA Purification Kit DNase I</p>	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
	<p>Lambda DNA Purification Kit Pronase</p>	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.</p>
	<p>Lambda DNA Purification Kit 80% DEAE - Cellulose</p>	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,</p>

Section 6. Accidental release measures

Lambda DNA Purification Kit CTAB 5%	waterways, soil or air). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Lambda DNA Purification Kit NaCl 1.2 M	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Lambda DNA Purification Kit Glycogen	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

:  Lambda DNA Purification Kit RNase A	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.
Lambda DNA Purification Kit DNase I	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Lambda DNA Purification Kit Pronase	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.
Lambda DNA Purification Kit 80% DEAE - Cellulose	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.
Lambda DNA Purification Kit CTAB 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.
Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	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


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Lambda DNA Purification Kit NaCl 1.2 M	inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Lambda DNA Purification Kit Glycogen	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures

:  Lambda DNA Purification Kit
RNase A

Put on appropriate personal protective equipment (see Section 8). Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Lambda DNA Purification Kit
DNase I


Put on appropriate personal protective equipment (see Section 8). Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Lambda DNA Purification Kit
Pronase

Put on appropriate personal protective equipment (see Section 8). Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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Advice on general occupational hygiene

<p>Lambda DNA Purification Kit 80% DEAE - Cellulose</p>	<p>Put on appropriate personal protective equipment (see Section 8). Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</p>
<p>Lambda DNA Purification Kit CTAB 5%</p>	<p>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</p>
<p>Lambda DNA Purification Kit 0.5 M EDTA pH=8.0</p>	<p>Put on appropriate personal protective equipment (see Section 8).</p>
<p>Lambda DNA Purification Kit NaCl 1.2 M</p>	<p>Put on appropriate personal protective equipment (see Section 8).</p>
<p>Lambda DNA Purification Kit Glycogen</p>	<p>Put on appropriate personal protective equipment (see Section 8).</p>
<p>Advice on general occupational hygiene :  Lambda DNA Purification Kit RNase A</p>	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
<p>Lambda DNA Purification Kit DNase I</p>	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
<p>Lambda DNA Purification Kit Pronase</p>	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
<p>Lambda DNA Purification Kit 80% DEAE - Cellulose</p>	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
<p>Lambda DNA Purification Kit CTAB 5%</p>	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face</p>

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Lambda DNA Purification Kit 0.5 M EDTA pH=8.0

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


Lambda DNA Purification Kit NaCl 1.2 M

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

Lambda DNA Purification Kit Glycogen

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

7.2 Conditions for safe storage, including any incompatibilities

:  Lambda DNA Purification Kit RNase A

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

Lambda DNA Purification Kit DNase I

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

Lambda DNA Purification Kit Pronase

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

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<p>Lambda DNA Purification Kit 80% DEAE - Cellulose</p>	<p>incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
<p>Lambda DNA Purification Kit CTAB 5%</p>	<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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
<p>Lambda DNA Purification Kit 0.5 M EDTA pH=8.0</p>	<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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
<p>Lambda DNA Purification Kit NaCl 1.2 M</p>	<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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>
<p>Lambda DNA Purification Kit Glycogen</p>	<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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p>

[7.3 Specific end use\(s\)](#)

Section 7. Handling and storage

Recommendations	: <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A	Industrial applications, Professional applications.
	Lambda DNA Purification Kit DNase I	Industrial applications, Professional applications.
	Lambda DNA Purification Kit Pronase	Industrial applications, Professional applications.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	Industrial applications, Professional applications.
	Lambda DNA Purification Kit CTAB 5%	Industrial applications, Professional applications.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Industrial applications, Professional applications.
	Lambda DNA Purification Kit NaCl 1.2 M	Industrial applications, Professional applications.
	Lambda DNA Purification Kit Glycogen	Industrial applications, Professional applications.
Industrial sector specific solutions	: <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A	Not applicable.
	Lambda DNA Purification Kit DNase I	Not applicable.
	Lambda DNA Purification Kit Pronase	Not applicable.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	Not applicable.
	Lambda DNA Purification Kit CTAB 5%	Not applicable.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not applicable.
	Lambda DNA Purification Kit NaCl 1.2 M	Not applicable.
	Lambda DNA Purification Kit Glycogen	Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
<input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride Nuclease, ribo-	None. None.
Lambda DNA Purification Kit DNase I Nuclease, deoxyribo-	None.
Lambda DNA Purification Kit Pronase Proteinase, Streptomyces griseus 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride Sodium dodecyl sulphate	None. None. None.
Lambda DNA Purification Kit 80% DEAE - Cellulose Phosphatase	None.
Lambda DNA Purification Kit CTAB 5% Cetrimonium bromide Sodium chloride	None. None.

Section 8. Exposure controls/personal protection

<p>Lambda DNA Purification Kit NaCl 1.2 M Sodium chloride</p>	<p>None.</p>
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8.2 Exposure controls

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

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

Individual protection measures

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

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

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

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

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

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

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: <input checked="" type="checkbox"/> Lambda DNA Purification Kit	Liquid.
	RNase A	
	Lambda DNA Purification Kit	Liquid.
	DNase I	
	Lambda DNA Purification Kit	Liquid.
	Pronase	
	Lambda DNA Purification Kit 80%	Liquid.
	DEAE - Cellulose	

Section 9. Physical and chemical properties

		Lambda DNA Purification Kit	Liquid.
		CTAB 5%	
		Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Liquid.
		Lambda DNA Purification Kit NaCl 1.2 M	Liquid.
		Lambda DNA Purification Kit Glycogen	Liquid.
Color	:	Lambda DNA Purification Kit RNase A	Not available.
		Lambda DNA Purification Kit DNase I	Not available.
		Lambda DNA Purification Kit Pronase	Not available.
		Lambda DNA Purification Kit 80% DEAE - Cellulose	Not available.
		Lambda DNA Purification Kit CTAB 5%	Not available.
		Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not available.
		Lambda DNA Purification Kit NaCl 1.2 M	Not available.
		Lambda DNA Purification Kit Glycogen	Not available.
Odor	:	Lambda DNA Purification Kit RNase A	Not available.
		Lambda DNA Purification Kit DNase I	Not available.
		Lambda DNA Purification Kit Pronase	Not available.
		Lambda DNA Purification Kit 80% DEAE - Cellulose	Not available.
		Lambda DNA Purification Kit CTAB 5%	Not available.
		Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not available.
		Lambda DNA Purification Kit NaCl 1.2 M	Not available.
		Lambda DNA Purification Kit Glycogen	Not available.
Odor threshold	:	Lambda DNA Purification Kit RNase A	Not available.
		Lambda DNA Purification Kit DNase I	Not available.
		Lambda DNA Purification Kit Pronase	Not available.
		Lambda DNA Purification Kit 80% DEAE - Cellulose	Not available.
		Lambda DNA Purification Kit CTAB 5%	Not available.
		Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not available.
		Lambda DNA Purification Kit NaCl 1.2 M	Not available.
		Lambda DNA Purification Kit Glycogen	Not available.
pH	:		

Section 9. Physical and chemical properties

	✓	Lambda DNA Purification Kit	7.5	
		RNase A		
		Lambda DNA Purification Kit	Not available.	
		DNase I		
		Lambda DNA Purification Kit	7.5	
		Pronase		
		Lambda DNA Purification Kit 80%	7.5	
		DEAE - Cellulose		
		Lambda DNA Purification Kit	Not available.	
		CTAB 5%		
		Lambda DNA Purification Kit 0.5	8	
		M EDTA pH=8.0		
		Lambda DNA Purification Kit NaCl	Not available.	
		1.2 M		
		Lambda DNA Purification Kit	Not available.	
		Glycogen		
Melting point	:	✓	Lambda DNA Purification Kit	0°C (32°F)
			RNase A	
			Lambda DNA Purification Kit	0°C (32°F)
			DNase I	
			Lambda DNA Purification Kit	Not available.
			Pronase	
			Lambda DNA Purification Kit 80%	Not available.
			DEAE - Cellulose	
			Lambda DNA Purification Kit	Not available.
			CTAB 5%	
			Lambda DNA Purification Kit 0.5	0°C (32°F)
			M EDTA pH=8.0	
			Lambda DNA Purification Kit NaCl	Not available.
			1.2 M	
			Lambda DNA Purification Kit	0°C (32°F)
			Glycogen	
Boiling point	:	✓	Lambda DNA Purification Kit	100°C (212°F)
			RNase A	
			Lambda DNA Purification Kit	100°C (212°F)
			DNase I	
			Lambda DNA Purification Kit	Not available.
			Pronase	
			Lambda DNA Purification Kit 80%	Not available.
			DEAE - Cellulose	
			Lambda DNA Purification Kit	Not available.
			CTAB 5%	
			Lambda DNA Purification Kit 0.5	100°C (212°F)
			M EDTA pH=8.0	
			Lambda DNA Purification Kit NaCl	Not available.
			1.2 M	
			Lambda DNA Purification Kit	100°C (212°F)
			Glycogen	
Flash point	:	✓	Lambda DNA Purification Kit	Not available.
			RNase A	
			Lambda DNA Purification Kit	Not available.
			DNase I	
			Lambda DNA Purification Kit	Not available.
			Pronase	
			Lambda DNA Purification Kit 80%	Not available.
			DEAE - Cellulose	
			Lambda DNA Purification Kit	Not available.
			CTAB 5%	

Section 9. Physical and chemical properties

		Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not available.
		Lambda DNA Purification Kit NaCl 1.2 M	Not available.
		Lambda DNA Purification Kit Glycogen	Not available.
Evaporation rate	:	Lambda DNA Purification Kit RNase A	Not available.
		Lambda DNA Purification Kit DNase I	Not available.
		Lambda DNA Purification Kit Pronase	Not available.
		Lambda DNA Purification Kit 80% DEAE - Cellulose	Not available.
		Lambda DNA Purification Kit CTAB 5%	Not available.
		Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not available.
		Lambda DNA Purification Kit NaCl 1.2 M	Not available.
		Lambda DNA Purification Kit Glycogen	Not available.
Flammability (solid, gas)	:	Lambda DNA Purification Kit RNase A	Not applicable.
		Lambda DNA Purification Kit DNase I	Not applicable.
		Lambda DNA Purification Kit Pronase	Not applicable.
		Lambda DNA Purification Kit 80% DEAE - Cellulose	Not applicable.
		Lambda DNA Purification Kit CTAB 5%	Not applicable.
		Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not applicable.
		Lambda DNA Purification Kit NaCl 1.2 M	Not applicable.
		Lambda DNA Purification Kit Glycogen	Not applicable.
Lower and upper explosive (flammable) limits	:	Lambda DNA Purification Kit RNase A	Not available.
		Lambda DNA Purification Kit DNase I	Not available.
		Lambda DNA Purification Kit Pronase	Not available.
		Lambda DNA Purification Kit 80% DEAE - Cellulose	Not available.
		Lambda DNA Purification Kit CTAB 5%	Not available.
		Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not available.
		Lambda DNA Purification Kit NaCl 1.2 M	Not available.
		Lambda DNA Purification Kit Glycogen	Not available.

Section 9. Physical and chemical properties

Vapor pressure	:	☑ Lambda DNA Purification Kit	Not available.
		RNase A	
		Lambda DNA Purification Kit	Not available.
		DNase I	
		Lambda DNA Purification Kit	Not available.
		Pronase	
		Lambda DNA Purification Kit 80%	Not available.
		DEAE - Cellulose	
		Lambda DNA Purification Kit	Not available.
		CTAB 5%	
Vapor density	:	☑ Lambda DNA Purification Kit	Not available.
		RNase A	
		Lambda DNA Purification Kit	Not available.
		DNase I	
		Lambda DNA Purification Kit	Not available.
		Pronase	
		Lambda DNA Purification Kit 80%	Not available.
		DEAE - Cellulose	
		Lambda DNA Purification Kit	Not available.
		CTAB 5%	
Relative density	:	☑ Lambda DNA Purification Kit	Not available.
		RNase A	
		Lambda DNA Purification Kit	Not available.
		DNase I	
		Lambda DNA Purification Kit	Not available.
		Pronase	
		Lambda DNA Purification Kit 80%	Not available.
		DEAE - Cellulose	
		Lambda DNA Purification Kit	Not available.
		CTAB 5%	
Solubility	:	☑ Lambda DNA Purification Kit	Easily soluble in the following materials: cold water and hot water.
		RNase A	
		Lambda DNA Purification Kit	Easily soluble in the following materials: cold water and hot water.
		DNase I	
		Lambda DNA Purification Kit	Easily soluble in the following materials: cold water and hot water.
		Pronase	
		Lambda DNA Purification Kit 80%	Soluble in the following materials: cold water and hot water.
	DEAE - Cellulose		
	Lambda DNA Purification Kit	Easily soluble in the following materials: cold water and hot water.	
	CTAB 5%		

Section 9. Physical and chemical properties

	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Easily soluble in the following materials: cold water and hot water.
	Lambda DNA Purification Kit NaCl 1.2 M	Easily soluble in the following materials: cold water and hot water.
	Lambda DNA Purification Kit Glycogen	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Lambda DNA Purification Kit RNase A	Not available.
	Lambda DNA Purification Kit DNase I	Not available.
	Lambda DNA Purification Kit Pronase	Not available.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	Not available.
	Lambda DNA Purification Kit CTAB 5%	Not available.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not available.
	Lambda DNA Purification Kit NaCl 1.2 M	Not available.
	Lambda DNA Purification Kit Glycogen	Not available.
Auto-ignition temperature	: Lambda DNA Purification Kit RNase A	Not available.
	Lambda DNA Purification Kit DNase I	Not available.
	Lambda DNA Purification Kit Pronase	Not available.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	Not available.
	Lambda DNA Purification Kit CTAB 5%	Not available.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not available.
	Lambda DNA Purification Kit NaCl 1.2 M	Not available.
	Lambda DNA Purification Kit Glycogen	Not available.
Decomposition temperature	: Lambda DNA Purification Kit RNase A	Not available.
	Lambda DNA Purification Kit DNase I	Not available.
	Lambda DNA Purification Kit Pronase	Not available.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	Not available.
	Lambda DNA Purification Kit CTAB 5%	Not available.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not available.
	Lambda DNA Purification Kit NaCl 1.2 M	Not available.
	Lambda DNA Purification Kit Glycogen	Not available.

Section 9. Physical and chemical properties

Viscosity	: <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A	Not available.
	Lambda DNA Purification Kit DNase I	Not available.
	Lambda DNA Purification Kit Pronase	Not available.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	Not available.
	Lambda DNA Purification Kit CTAB 5%	Not available.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not available.
	Lambda DNA Purification Kit NaCl 1.2 M	Not available.
	Lambda DNA Purification Kit Glycogen	Not available.

Section 10. Stability and reactivity

10.1 Reactivity	: <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A	No specific test data related to reactivity available for this product or its ingredients.
	Lambda DNA Purification Kit DNase I	No specific test data related to reactivity available for this product or its ingredients.
	Lambda DNA Purification Kit Pronase	No specific test data related to reactivity available for this product or its ingredients.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	No specific test data related to reactivity available for this product or its ingredients.
	Lambda DNA Purification Kit CTAB 5%	No specific test data related to reactivity available for this product or its ingredients.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	No specific test data related to reactivity available for this product or its ingredients.
	Lambda DNA Purification Kit NaCl 1.2 M	No specific test data related to reactivity available for this product or its ingredients.
	Lambda DNA Purification Kit Glycogen	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A	The product is stable.
	Lambda DNA Purification Kit DNase I	The product is stable.
	Lambda DNA Purification Kit Pronase	The product is stable.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	The product is stable.
	Lambda DNA Purification Kit CTAB 5%	The product is stable.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	The product is stable.
	Lambda DNA Purification Kit NaCl 1.2 M	The product is stable.
	Lambda DNA Purification Kit Glycogen	The product is stable.

Section 10. Stability and reactivity

10.3 Possibility of hazardous reactions	: Lambda DNA Purification Kit RNase A	Under normal conditions of storage and use, hazardous reactions will not occur.
	Lambda DNA Purification Kit DNase I	Under normal conditions of storage and use, hazardous reactions will not occur.
	Lambda DNA Purification Kit Pronase	Under normal conditions of storage and use, hazardous reactions will not occur.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	Under normal conditions of storage and use, hazardous reactions will not occur.
	Lambda DNA Purification Kit CTAB 5%	Under normal conditions of storage and use, hazardous reactions will not occur.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Under normal conditions of storage and use, hazardous reactions will not occur.
	Lambda DNA Purification Kit NaCl 1.2 M	Under normal conditions of storage and use, hazardous reactions will not occur.
	Lambda DNA Purification Kit Glycogen	Under normal conditions of storage and use, hazardous reactions will not occur.
	10.4 Conditions to avoid	: Lambda DNA Purification Kit RNase A
Lambda DNA Purification Kit DNase I		No specific data.
Lambda DNA Purification Kit Pronase		No specific data.
Lambda DNA Purification Kit 80% DEAE - Cellulose		No specific data.
Lambda DNA Purification Kit CTAB 5%		No specific data.
Lambda DNA Purification Kit 0.5 M EDTA pH=8.0		No specific data.
Lambda DNA Purification Kit NaCl 1.2 M		No specific data.
Lambda DNA Purification Kit Glycogen		No specific data.
10.5 Incompatible materials		: Lambda DNA Purification Kit RNase A
	Lambda DNA Purification Kit DNase I	May react or be incompatible with oxidizing materials.
	Lambda DNA Purification Kit Pronase	May react or be incompatible with oxidizing materials.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	May react or be incompatible with oxidizing materials.
	Lambda DNA Purification Kit CTAB 5%	May react or be incompatible with oxidizing materials.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	May react or be incompatible with oxidizing materials.
	Lambda DNA Purification Kit NaCl 1.2 M	May react or be incompatible with oxidizing materials.
	Lambda DNA Purification Kit Glycogen	May react or be incompatible with oxidizing materials.

Section 10. Stability and reactivity

10.6 Hazardous decomposition products	λ Lambda DNA Purification Kit RNase A	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Lambda DNA Purification Kit DNase I	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Lambda DNA Purification Kit Pronase	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Lambda DNA Purification Kit CTAB 5%	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Lambda DNA Purification Kit NaCl 1.2 M	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Lambda DNA Purification Kit Glycogen	Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
λ Lambda DNA Purification Kit Pronase				
Proteinase, Streptomyces griseus	LD50 Oral	Rat	3290 mg/kg	-
Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-
Lambda DNA Purification Kit CTAB 5%				
Cetrimonium bromide	LD50 Oral	Rat	410 mg/kg	-
Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
Lambda DNA Purification Kit NaCl 1.2 M				
Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
λ Lambda DNA Purification Kit Pronase					
Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 Micrograms	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Guinea pig	-	24 hours 25 milligrams	-
	Skin - Moderate irritant	Mouse	-	24 hours 25	-

Section 11. Toxicological information

Lambda DNA Purification Kit CTAB 5% Cetrimonium bromide	Skin - Mild irritant	Rabbit	-	milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 50 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 25 milligrams	-
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	450 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Mild irritant	Rabbit	-	10 milligrams	-
Lambda DNA Purification Kit NaCl 1.2 M Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Mild irritant	Rabbit	-	10 milligrams	-

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Lambda DNA Purification Kit RNase A 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
Lambda DNA Purification Kit Pronase Proteinase, Streptomyces griseus	Category 3	Not applicable.	Respiratory tract irritation
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
Sodium dodecyl sulphate	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Section 11. Toxicological information

Information on the likely routes of exposure	: Lambda DNA Purification Kit RNase A	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Lambda DNA Purification Kit DNase I	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Lambda DNA Purification Kit Pronase	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Lambda DNA Purification Kit CTAB 5%	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	Not available.
	Lambda DNA Purification Kit NaCl 1.2 M	Not available.
	Lambda DNA Purification Kit Glycogen	Not available.
	Potential acute health effects	
Eye contact	: Lambda DNA Purification Kit RNase A	No known significant effects or critical hazards.
	Lambda DNA Purification Kit DNase I	No known significant effects or critical hazards.
	Lambda DNA Purification Kit Pronase	No known significant effects or critical hazards.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	No known significant effects or critical hazards.
	Lambda DNA Purification Kit CTAB 5%	No known significant effects or critical hazards.
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	No known significant effects or critical hazards.
	Lambda DNA Purification Kit NaCl 1.2 M	No known significant effects or critical hazards.
	Lambda DNA Purification Kit Glycogen	No known significant effects or critical hazards.
	Inhalation	: Lambda DNA Purification Kit RNase A
Lambda DNA Purification Kit DNase I		May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Lambda DNA Purification Kit Pronase		May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Lambda DNA Purification Kit 80% DEAE - Cellulose		May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Lambda DNA Purification Kit CTAB 5%		No known significant effects or critical hazards.
Lambda DNA Purification Kit 0.5 M EDTA pH=8.0		No known significant effects or critical hazards.
Lambda DNA Purification Kit NaCl 1.2 M		No known significant effects or critical hazards.
Lambda DNA Purification Kit Glycogen		No known significant effects or critical hazards.
Skin contact		: Lambda DNA Purification Kit RNase A
	Lambda DNA Purification Kit DNase I	No known significant effects or critical hazards.
	Lambda DNA Purification Kit Pronase	No known significant effects or critical hazards.
	Lambda DNA Purification Kit 80% DEAE - Cellulose	No known significant effects or critical hazards.

Section 11. Toxicological information

	Lambda DNA Purification Kit	No known significant effects or critical hazards.
	CTAB 5%	
	Lambda DNA Purification Kit 0.5	No known significant effects or critical hazards.
	M EDTA pH=8.0	
	Lambda DNA Purification Kit NaCl	No known significant effects or critical hazards.
	1.2 M	
	Lambda DNA Purification Kit	No known significant effects or critical hazards.
	Glycogen	
Ingestion	: Lambda DNA Purification Kit	No known significant effects or critical hazards.
	RNase A	
	Lambda DNA Purification Kit	No known significant effects or critical hazards.
	DNase I	
	Lambda DNA Purification Kit	No known significant effects or critical hazards.
	Pronase	
	Lambda DNA Purification Kit 80%	No known significant effects or critical hazards.
	DEAE - Cellulose	
	Lambda DNA Purification Kit	No known significant effects or critical hazards.
	CTAB 5%	
	Lambda DNA Purification Kit 0.5	No known significant effects or critical hazards.
	M EDTA pH=8.0	
	Lambda DNA Purification Kit NaCl	No known significant effects or critical hazards.
	1.2 M	
	Lambda DNA Purification Kit	No known significant effects or critical hazards.
	Glycogen	

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Lambda DNA Purification Kit	No specific data.
	RNase A	
	Lambda DNA Purification Kit	No specific data.
	DNase I	
	Lambda DNA Purification Kit	No specific data.
	Pronase	
	Lambda DNA Purification Kit 80%	No specific data.
	DEAE - Cellulose	
	Lambda DNA Purification Kit	No specific data.
	CTAB 5%	
	Lambda DNA Purification Kit 0.5	No specific data.
	M EDTA pH=8.0	
	Lambda DNA Purification Kit NaCl	No specific data.
	1.2 M	
	Lambda DNA Purification Kit	No specific data.
	Glycogen	
Inhalation	: Lambda DNA Purification Kit	Adverse symptoms may include the following:
	RNase A	wheezing and breathing difficulties asthma
	Lambda DNA Purification Kit	Adverse symptoms may include the following:
	DNase I	wheezing and breathing difficulties asthma
	Lambda DNA Purification Kit	Adverse symptoms may include the following:
	Pronase	wheezing and breathing difficulties asthma
	Lambda DNA Purification Kit 80%	Adverse symptoms may include the following:
	DEAE - Cellulose	wheezing and breathing difficulties asthma

Section 11. Toxicological information

	Lambda DNA Purification Kit	No specific data.
	CTAB 5%	
	Lambda DNA Purification Kit 0.5	No specific data.
	M EDTA pH=8.0	
	Lambda DNA Purification Kit NaCl	No specific data.
	1.2 M	
	Lambda DNA Purification Kit	No specific data.
	Glycogen	
Skin contact	: <input checked="" type="checkbox"/> Lambda DNA Purification Kit	No specific data.
	RNase A	
	Lambda DNA Purification Kit	No specific data.
	DNase I	
	Lambda DNA Purification Kit	No specific data.
	Pronase	
	Lambda DNA Purification Kit 80%	No specific data.
	DEAE - Cellulose	
	Lambda DNA Purification Kit	No specific data.
	CTAB 5%	
	Lambda DNA Purification Kit 0.5	No specific data.
	M EDTA pH=8.0	
	Lambda DNA Purification Kit NaCl	No specific data.
	1.2 M	
	Lambda DNA Purification Kit	No specific data.
	Glycogen	
Ingestion	: <input checked="" type="checkbox"/> Lambda DNA Purification Kit	No specific data.
	RNase A	
	Lambda DNA Purification Kit	No specific data.
	DNase I	
	Lambda DNA Purification Kit	No specific data.
	Pronase	
	Lambda DNA Purification Kit 80%	No specific data.
	DEAE - Cellulose	
	Lambda DNA Purification Kit	No specific data.
	CTAB 5%	
	Lambda DNA Purification Kit 0.5	No specific data.
	M EDTA pH=8.0	
	Lambda DNA Purification Kit NaCl	No specific data.
	1.2 M	
	Lambda DNA Purification Kit	No specific data.
	Glycogen	

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Section 11. Toxicological information

General	<ul style="list-style-type: none"> : <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A Lambda DNA Purification Kit DNase I Lambda DNA Purification Kit Pronase Lambda DNA Purification Kit 80% DEAE - Cellulose Lambda DNA Purification Kit CTAB 5% Lambda DNA Purification Kit 0.5 M EDTA pH=8.0 Lambda DNA Purification Kit NaCl 1.2 M Lambda DNA Purification Kit Glycogen 	<ul style="list-style-type: none"> Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	<ul style="list-style-type: none"> : <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A Lambda DNA Purification Kit DNase I Lambda DNA Purification Kit Pronase Lambda DNA Purification Kit 80% DEAE - Cellulose Lambda DNA Purification Kit CTAB 5% Lambda DNA Purification Kit 0.5 M EDTA pH=8.0 Lambda DNA Purification Kit NaCl 1.2 M Lambda DNA Purification Kit Glycogen 	<ul style="list-style-type: none"> No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	<ul style="list-style-type: none"> : <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A Lambda DNA Purification Kit DNase I Lambda DNA Purification Kit Pronase Lambda DNA Purification Kit 80% DEAE - Cellulose Lambda DNA Purification Kit CTAB 5% Lambda DNA Purification Kit 0.5 M EDTA pH=8.0 Lambda DNA Purification Kit NaCl 1.2 M Lambda DNA Purification Kit Glycogen 	<ul style="list-style-type: none"> No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Section 11. Toxicological information

Teratogenicity	: <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A	No known significant effects or critical hazards.	
	Lambda DNA Purification Kit DNase I	No known significant effects or critical hazards.	
	Lambda DNA Purification Kit Pronase	No known significant effects or critical hazards.	
	Lambda DNA Purification Kit 80% DEAE - Cellulose	No known significant effects or critical hazards.	
	Lambda DNA Purification Kit CTAB 5%	No known significant effects or critical hazards.	
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	No known significant effects or critical hazards.	
	Lambda DNA Purification Kit NaCl 1.2 M	No known significant effects or critical hazards.	
	Lambda DNA Purification Kit Glycogen	No known significant effects or critical hazards.	
	Developmental effects	: <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A	No known significant effects or critical hazards.
		Lambda DNA Purification Kit DNase I	No known significant effects or critical hazards.
Lambda DNA Purification Kit Pronase		No known significant effects or critical hazards.	
Lambda DNA Purification Kit 80% DEAE - Cellulose		No known significant effects or critical hazards.	
Lambda DNA Purification Kit CTAB 5%		No known significant effects or critical hazards.	
Lambda DNA Purification Kit 0.5 M EDTA pH=8.0		No known significant effects or critical hazards.	
Lambda DNA Purification Kit NaCl 1.2 M		No known significant effects or critical hazards.	
Lambda DNA Purification Kit Glycogen		No known significant effects or critical hazards.	
Fertility effects		: <input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A	No known significant effects or critical hazards.
		Lambda DNA Purification Kit DNase I	No known significant effects or critical hazards.
	Lambda DNA Purification Kit Pronase	No known significant effects or critical hazards.	
	Lambda DNA Purification Kit 80% DEAE - Cellulose	No known significant effects or critical hazards.	
	Lambda DNA Purification Kit CTAB 5%	No known significant effects or critical hazards.	
	Lambda DNA Purification Kit 0.5 M EDTA pH=8.0	No known significant effects or critical hazards.	
	Lambda DNA Purification Kit NaCl 1.2 M	No known significant effects or critical hazards.	
	Lambda DNA Purification Kit Glycogen	No known significant effects or critical hazards.	

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

Route	ATE value
Lambda DNA Purification Kit Pronase Oral	65800 mg/kg
Lambda DNA Purification Kit CTAB 5% Oral	7597.8 mg/kg
Lambda DNA Purification Kit NaCl 1.2 M Oral	42857.1 mg/kg

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Lambda DNA Purification Kit Pronase Sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 900 µg/l Marine water	Crustaceans - Artemia salina - Adult	48 hours
	Acute LC50 1400 µg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 590 µg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - Ulva fasciata - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
Lambda DNA Purification Kit CTAB 5% Cetrimonium bromide Sodium chloride	Chronic NOEC >1357 µg/l Fresh water	Fish - Pimephales promelas	42 days
	Acute EC50 90 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402600 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks	
Lambda DNA Purification Kit NaCl 1.2 M Sodium chloride	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402600 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours

Section 12. Ecological information

	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Lambda DNA Purification Kit Pronase Sodium dodecyl sulphate	-2.03	-	low
Lambda DNA Purification Kit CTAB 5% Cetrimonium bromide	-	444 to 677	high

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

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

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

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

Section 14. Transport information

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

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

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

Section 15. Regulatory information

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

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

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification	:	<ul style="list-style-type: none"> ✓ Lambda DNA Purification Kit RNase A Lambda DNA Purification Kit DNase I Lambda DNA Purification Kit Pronase Lambda DNA Purification Kit 80% DEAE - Cellulose Lambda DNA Purification Kit CTAB 5% Lambda DNA Purification Kit 0.5 M EDTA pH=8.0 Lambda DNA Purification Kit NaCl 1.2 M Lambda DNA Purification Kit Glycogen 	<ul style="list-style-type: none"> RESPIRATORY SENSITIZATION - Category 1 RESPIRATORY SENSITIZATION - Category 1 RESPIRATORY SENSITIZATION - Category 1 RESPIRATORY SENSITIZATION - Category 1 Not applicable. Not applicable. Not applicable. Not applicable.
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Composition/information on ingredients

Section 15. Regulatory information

Name	%	Classification
Lambda DNA Purification Kit RNase A 2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	≤3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Nuclease, ribo-	≤0.3	COMBUSTIBLE DUSTS RESPIRATORY SENSITIZATION - Category 1
Lambda DNA Purification Kit DNase I Nuclease, deoxyribo-	≤3	COMBUSTIBLE DUSTS RESPIRATORY SENSITIZATION - Category 1
Lambda DNA Purification Kit Pronase Proteinase, Streptomyces griseus	≤7.6	COMBUSTIBLE DUSTS SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
2-Amino-2-(hydroxymethyl) propane-1,3-diol hydrochloride	≤2.3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Lambda DNA Purification Kit 80% DEAE - Cellulose Phosphatase	≥75 - ≤90	COMBUSTIBLE DUSTS RESPIRATORY SENSITIZATION - Category 1
Lambda DNA Purification Kit CTAB 5% Cetrimonium bromide	≤6.3	ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2A
Sodium chloride	≤3	EYE IRRITATION - Category 2A
Lambda DNA Purification Kit NaCl 1.2 M Sodium chloride	<10	EYE IRRITATION - Category 2A
Lambda DNA Purification Kit Glycogen Glycogen	≤3	COMBUSTIBLE DUSTS

State regulations

- Massachusetts** : None of the components are listed.
New York : None of the components are listed.
New Jersey : None of the components are listed.
Pennsylvania : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Section 15. Regulatory information

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

Section 16. Other information

History

Date of issue	: 06/29/2018
Date of previous issue	: 08/02/2016
Version	: 5

Procedure used to derive the classification

Classification	Justification
<input checked="" type="checkbox"/> Lambda DNA Purification Kit RNase A RESPIRATORY SENSITIZATION - Category 1	Calculation method
Lambda DNA Purification Kit DNase I RESPIRATORY SENSITIZATION - Category 1	Calculation method
Lambda DNA Purification Kit Pronase RESPIRATORY SENSITIZATION - Category 1 AQUATIC HAZARD (ACUTE) - Category 3	Calculation method Calculation method
Lambda DNA Purification Kit 80% DEAE - Cellulose RESPIRATORY SENSITIZATION - Category 1	Calculation method
Lambda DNA Purification Kit CTAB 5% AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1	Calculation method Calculation method

Indicates information that has changed from previously issued version.

Section 16. Other information

[Notice to reader](#)

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