SAFETY DATA SHEET



GeneMorph II EZClone Domain Mutagenesis Kit, Part Number 200552

Section 1. Identification

1.1 Product identifier		
Product name	: GeneMorph II EZClone Domain Mutage	enesis Kit, Part Number 200552
Part no. (chemical kit)	: 200552	
Part no.	: EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	200552-58 200552-51 200550-52 200552-52 200552-54 200552-57 200552-55 200552-55 200552-53 200315-41 200314-43 200231-42
Validation date	: 1/16/2023	
1.2 Relevant identified use	es of the substance or mixture and uses adv	<u>vised against</u>
Identified uses	 Analytical reagent. ZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Plasmid XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid 	0.03 ml 0.1 ml (25 U (2.5 U/μl) 0.15 ml 0.01 ml 0.25 ml 0.01 ml (100 U 10 U/μl) 0.021 ml (210 ng (10 ng/μl) 0.003 ml (750 ng (250 ng/μl) 0.05 ml (50 μl (20 ng/μl) 0.54 ml 0.05 ml 0.01 ml (0.1 ng / μl)
1.3 Details of the supplier	<u>of the safety data sheet</u>	
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	

2.1 Classification of the substance or mixture

OSHA/HCS status	: EZClone Solution	This material is considered hazardous by the OSHA
		Hazard Communication Standard (29 CFR 1910.1200).
	Mutazyme II	This material is considered hazardous by the OSHA
		Hazard Communication Standard (29 CFR 1910.1200).
	10X Mutazyme II Reaction	While this material is not considered hazardous by the
	Buffer	OSHA Hazard Communication Standard (29 CFR
		1910.1200), this SDS contains valuable information

Section 2. Hazards identification

Date of issue :

01/16/2023

	40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix	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. 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. 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.
	Dpn I	This material is considered hazardous by the OSHA
	Positive Control Plasmid	Hazard Communication Standard (29 CFR 1910.1200). 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.
	Positive Control Primer Mix	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	1.1 kb Gel Standard	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.
	XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	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). 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 of	or mixture	
EŹCIone Solution H227 H320	FLAMMABLE LIQUIDS - Ca EYE IRRITATION - Categor	• •
Mutazyme II H320	EYE IRRITATION - Categor	y 2B
Dpn I H320	EYE IRRITATION - Categor	y 2B
XL10-Gold Ultracompetent cells H320	EYE IRRITATION - Categor	y 2B
XL10-Gold 2-Mercaptoethanol		

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Section 2. Hazard	s identification	
H318 H317 H361 H373 H412	SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3	
	10 X Mutazyme II Reaction Buffer	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 9%
	40 mM dNTP Mix (10 mM dNTP)	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 4.2%
	XL10-Gold Ultracompetent cells	Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 5%
2.2 GHS label elements		
Hazard pictograms	: KL10-Gold 2-Mercaptoethanol	
Signal word	 EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid 	Warning Warning No signal word. No signal word. No signal word. Warning No signal word. No signal word. Warning Danger No signal word.
Hazard statements	: ZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol	 H227 - Combustible liquid. H320 - Causes eye irritation. H320 - Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. H320 - Causes eye irritation. No known significant effects or critical hazards. H320 - Causes eye irritation. No known significant effects or critical hazards. H320 - Causes eye irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H361 - Suspected of damaging fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. H412 - Harmful to aquatic life with long lasting
Precautionary statements	pUC 18 DNA Control Plasmid	effects. No known significant effects or critical hazards.

Section 2. Hazards identification

Mutazyme II Not splicable. 10X Mutazyme II Reaction Buffer Not applicable. 10X Mutazyme II Reaction Buffer Not applicable. 10X Mutazyme III Reaction Buffer Not applicable. 11 kb Gel Standard Not applicable. 11 kb Gel Standard Not applicable. XL10-Gold Ultracompetent cells Not applicable. XL10-Gold 2-Mercaptoethanol Not applicable. P200 - Vear protective gloves protective clothing and eye or face protection. P220 - Vear protective gloves protective clothing and eye or face protection. P200 - Vear protective gloves for the protection. P220 - Vear protective gloves for the protection. P200 - Vear protective gloves for the protection. P220 - Vear protective gloves for the protection. P200 - Vear protective gloves for the protection. P220 - Vear protective gloves for the protection. P200 - 18 DNA Control Plasmid Not applicable. Mutazyme II P337 + P33 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P33 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P33 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <tr< th=""><th>Prevention</th><th>: ZClone Solution</th><th>P210 - Keep away from flames and hot surfaces.</th></tr<>	Prevention	: ZClone Solution	P210 - Keep away from flames and hot surfaces.
10X Mutazyme II Reaction Buffer Not applicable. 40 mM dNTP Mix (10 mM dNTP) Not applicable. 2X EZClone Enzyme Mix Not applicable. Positive Control Primer Mix Not applicable. 1.1 kb Gel Standard Not applicable. XL 10-Gold Ultracompetent cells Not applicable. Response : IVIC 18 DNA Control Plasmid PUC 18 DNA Control Plasmid Not applicable. Mutazyme II P305 + P331 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313. If ey irritation persists: Get medical advice or attention. 10X Mutazyme II Reaction Buffer Not applicable. 10X Mutazyme II Reactin Buffer Not applicable.		Mutor market	No smoking.
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		nUC 18 DNA Control Plasmid	

Section 2. Hazards identification

Storage	: EZClone Solution	P403 + P235 - Store in a well-ventilated place.
	Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	Keep cool. Not applicable. Not applicable.
Disposal	: EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	pUC 18 DNA Control Plasmid : EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	Not applicable. None known. None known.
2.3 Other hazards Hazards not otherwise classified	: EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	None known. None known. None known. None known. None known. None known. None known. None known. None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: EZClone Solution	Substance
	Mutazyme II	Mixture
	10X Mutazyme II Reaction Buffer	Mixture
	40 mM dNTP Mix (10 mM dNTP)	Mixture
	2X EZClone Enzyme Mix	Mixture
	Dpn I	Mixture
	Positive Control Plasmid	Mixture
	Positive Control Primer Mix	Mixture
	1.1 kb Gel Standard	Mixture
	XL10-Gold Ultracompetent cells	Mixture
	XL10-Gold 2-Mercaptoethanol	Mixture
	pUC 18 DNA Control Plasmid	Mixture

Ingredient name	%	CAS number
EZClone Solution		
Dimethyl sulfoxide	100	67-68-5
Mutazyme II		
Glycerol	≥50 - ≤75	56-81-5
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omega hydroxy-	<0.25	9036-19-5
2X EZClone Enzyme Mix		
Glycerol	<10	56-81-5
Polyoxyethylene octyl phenyl ether	<0.25	9002-93-1
Dpn I		
Glycerol	≥50 - ≤75	56-81-5
XL10-Gold Ultracompetent cells		
Glycerol	≥10 - ≤25	56-81-5
Dimethyl sulfoxide	≤10	67-68-5
Potassium chloride	≤3	7447-40-7
XL10-Gold 2-Mercaptoethanol		
2-Mercaptoethanol	≤5	60-24-2

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 and hence require reporting in this section.

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

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Date of issue :	01/16/2023	6/54

4.1 Description of necessary	<u>r first aid measures</u>	
Eye contact	: E ZClone Solution	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If
	Mutazyme II	irritation persists, get medical attention. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If
	10X Mutazyme II Reaction Buffer	irritation persists, get medical attention. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	40 mM dNTP Mix (10 mM dNTP)	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	2X EZClone Enzyme Mix	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	Dpn I	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If
	Positive Control Plasmid	irritation persists, get medical attention. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	Positive Control Primer Mix	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get
	1.1 kb Gel Standard	medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	XL10-Gold Ultracompetent cells	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If
	XL10-Gold 2-Mercaptoethanol	irritation persists, get medical attention. Get medical attention immediately. Call a poison center or physician. 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.
	pUC 18 DNA Control Plasmid	Chemical burns must be treated promptly by a physician. 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 :	EZClone Solution	Pomovo victim to frosh air and koop at rost in a
innalation :		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
	Mutazyme II	collar, tie, belt or waistband. 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.
	10X Mutazyme II Reaction Buffer	Remove victim to fresh air and keep at rest in a
		position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation
		of decomposition products in a fire, symptoms
		may be delayed. The exposed person may need
		to be kept under medical surveillance for 48
	40 mM dNTP Mix (10 mM dNTP)	hours. Remove victim to fresh air and keep at rest in a
		position comfortable for breathing. Get medical
		attention if symptoms occur. In case of inhalation
		of decomposition products in a fire, symptoms may be delayed. The exposed person may need
		to be kept under medical surveillance for 48
		hours.
	2X EZClone Enzyme Mix	Remove victim to fresh air and keep at rest in a
		position comfortable for breathing. Get medical attention if symptoms occur.
	Dpn I	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
	Positive Control Plasmid	collar, tie, belt or waistband. Remove victim to fresh air and keep at rest in a
		position comfortable for breathing. Get medical
		attention if symptoms occur.
	Positive Control Primer Mix	Remove victim to fresh air and keep at rest in a
		position comfortable for breathing. Get medical attention if symptoms occur.
	1.1 kb Gel Standard	Remove victim to fresh air and keep at rest in a
	2	9/5/

XL10-Gold Ultracompetent cells	position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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
XL10-Gold 2-Mercaptoethanol	collar, tie, belt or waistband. Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
pUC 18 DNA Control Plasmid	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
: EZClone Solution	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.
Mutazyme II	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.
10X Mutazyme II Reaction Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
40 mM dNTP Mix (10 mM dNTP)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
2X EZClone Enzyme Mix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get
Dpn I	medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Positive Control Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Positive Control Primer Mix	Flush contaminated skin with plenty of water.

Skin contact

1.1 kb Gel Standard Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated clothing and shoes. Get medical attention if symptoms occur. XL 10-Gold 2-Mercaptoethanol Flush contaminated clothing and shoes. Get medical attention if symptoms occur. XL 10-Gold 2-Mercaptoethanol Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. XL 10-Gold 2-Mercaptoethanol Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. PUC 18 DNA Control Plasmid Flush contaminated skin with plenty of soap and water. puC 18 DNA Control Plasmid Flush contaminated skin with plenty of water. Remove contaminated skin with plenty of water. Remove contaminated skin with plenty of water. Remove contaminated skin with plenty of water. Remove contaminated skin with plenty of water. Remove contaminated skin with plenty of water. Remove contaminated skin with plenty of water. Remove contaminated skin with plenty of water. Remove contaminated skin with plenty of water. public 18 DNA Control Plasmid Flush contaminated skin with plenty of water. public 20 Signal Advector and skin with plenty of water. Remove contaminated skin with plenty of water. Remove dontamistet of donts. Stop advector and skin with plen			Remove contaminated clothing and shoes. Get
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 10X Mutazyme II Reaction Buffer 10X Mutazyme II Reaction Buffer 10X Mutazyme II Reaction Buffer Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. 40 mM dNTP Mix (10 mM dNTP) Wash out mouth with water. If material has been swallowed and the exposed person is conscious, 			
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. 40 mM dNTP Mix (10 mM dNTP) Wash out mouth with water. If material has been swallowed and the exposed person is conscious,		10X Mutazyme II Reaction Buffer	tight clothing such as a collar, tie, belt or waistband.
induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. 40 mM dNTP Mix (10 mM dNTP) Wash out mouth with water. If material has been swallowed and the exposed person is conscious,			swallowed and the exposed person is conscious,
40 mM dNTP Mix (10 mM dNTP) Wash out mouth with water. If material has been swallowed and the exposed person is conscious,			induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms
		40 mM dNTP Mix (10 mM dNTP)	Wash out mouth with water. If material has been
give small quantities of water to drink. Do not			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
2X EZClone Enzyme Mix	occur. Wash out mouth with water. If material has been
	swallowed and the exposed person is conscious,
	give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical
	personnel. Get medical attention if symptoms
	occur.
Dpn I	Wash out mouth with water. Remove dentures if
	any. If material has been swallowed and the
	exposed person is conscious, give small quantities
	of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce
	vomiting unless directed to do so by medical
	personnel. If vomiting occurs, the head should be
	kept low so that vomit does not enter the lungs.
	Get medical attention if adverse health effects
	persist or are severe. Never give anything by
	mouth to an unconscious person. If unconscious, place in recovery position and get medical attention
	immediately. Maintain an open airway. Loosen
	tight clothing such as a collar, tie, belt or waistband.
Positive Control Plasmid	Wash out mouth with water. If material has been
	swallowed and the exposed person is conscious,
	give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical
	personnel. Get medical attention if symptoms
	occur.
Positive Control Primer Mix	Wash out mouth with water. If material has been
	swallowed and the exposed person is conscious,
	give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical
	personnel. Get medical attention if symptoms
	occur.
1.1 kb Gel Standard	Wash out mouth with water. If material has been
	swallowed and the exposed person is conscious, give small quantities of water to drink. Do not
	induce vomiting unless directed to do so by medical
	personnel. Get medical attention if symptoms
	occur.
XL10-Gold Ultracompetent cells	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the
	exposed person is conscious, give small quantities
	of water to drink. Stop if the exposed person feels
	sick as vomiting may be dangerous. Do not induce
	vomiting unless directed to do so by medical
	personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
	Get medical attention if adverse health effects
	persist or are severe. Never give anything by
	mouth to an unconscious person. If unconscious,
	place in recovery position and get medical attention
	immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
XL10-Gold 2-Mercaptoethanol	Get medical attention immediately. Call a poison
·	center or physician. Wash out mouth with water.
	Remove dentures if any. If material has been
	swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the
	give small quantities of water to utilik. Stop if the

Section 4. First alu	measures	
	pUC 18 DNA Control Plasmid	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. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
4.2 Most important symptoms Potential acute health effects		
Eye contact	 ZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid 	Causes eye irritation. Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation. Causes eye irritation. Causes serious eye damage. No known significant effects or critical hazards.
Inhalation	 EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid 	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards. May cause an allergic skin reaction. No known significant effects or critical hazards.

Ingestion :	EZClone Solution	No known significant effects or critical hazards.
	Mutazyme II	No known significant effects or critical hazards.
	10X Mutazyme II Reaction Buffer	No known significant effects or critical hazards.
	40 mM dNTP Mix (10 mM dNTP)	No known significant effects or critical hazards.
	2X EZClone Enzyme Mix	No known significant effects or critical hazards.
	Dpn I De sitis Constant Discussid	No known significant effects or critical hazards.
	Positive Control Plasmid	No known significant effects or critical hazards.
	Positive Control Primer Mix	No known significant effects or critical hazards.
	1.1 kb Gel Standard	No known significant effects or critical hazards.
	XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol	No known significant effects or critical hazards. No known significant effects or critical hazards.
	pUC 18 DNA Control Plasmid	No known significant effects or critical hazards.
		No known significant effects of childa hazards.
Over-exposure signs/sympton		
Eye contact :	ZClone Solution	Adverse symptoms may include the following: irritation watering
		redness
	Mutazyme II	Adverse symptoms may include the following:
	Mutazyme n	irritation
		watering
		redness
	10X Mutazyme II Reaction Buffer	No specific data.
	40 mM dNTP Mix (10 mM dNTP)	No specific data.
	2X EZClone Enzyme Mix	No specific data.
	Dpn I	Adverse symptoms may include the following:
		irritation
		watering
		redness
	Positive Control Plasmid	No specific data.
	Positive Control Primer Mix	No specific data.
	1.1 kb Gel Standard	No specific data.
	XL10-Gold Ultracompetent cells	Adverse symptoms may include the following: irritation watering
		redness
	XL10-Gold 2-Mercaptoethanol	Adverse symptoms may include the following:
		pain
		watering
	THE 10 DNA Control Discouried	redness
	pUC 18 DNA Control Plasmid	No specific data.
Inhalation :	EZClone Solution	No specific data.
	Mutazyme II	No specific data.
	10X Mutazyme II Reaction Buffer	No specific data.
	40 mM dNTP Mix (10 mM dNTP)	No specific data.
	2X EZClone Enzyme Mix Dpn I	No specific data. No specific data.
	Positive Control Plasmid	No specific data.
	Positive Control Primer Mix	No specific data.
	1.1 kb Gel Standard	No specific data.
	XL10-Gold Ultracompetent cells	No specific data.
	XL10-Gold 2-Mercaptoethanol	Adverse symptoms may include the following:
	•	reduced fetal weight
		increase in fetal deaths
		skeletal malformations
	pUC 18 DNA Control Plasmid	No specific data.

Section 4. First aid	measures	
Skin contact	EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol	No specific data. No specific data. Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	pUC 18 DNA Control Plasmid EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol	No specific data. No specific data. Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations No specific data.
4.3 Indication of immediate me	edical attention and special treatme	ent needed, if necessary
Notes to physician	EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical
	40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid	surveillance for 48 hours. 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. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment
		specialist immediately if large quantities have been ingested or inhaled.

Section 4. First a	u measures	
	Positive Control Primer Mix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	1.1 kb Gel Standard	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	XL10-Gold Ultracompetent cells	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	XL10-Gold 2-Mercaptoethanol	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pUC 18 DNA Control Plasmid	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.
	Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.
Protection of first-aiders	: EZClone Solution Mutazyme II	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. No action shall be taken involving any personal risk
	,	or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	10X Mutazyme II Reaction Buffer	No action shall be taken involving any personal risk or without suitable training.
	40 mM dNTP Mix (10 mM dNTP)	No action shall be taken involving any personal risk or without suitable training.
	2X EZClone Enzyme Mix	No action shall be taken involving any personal risk or without suitable training.
	Dpn I	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
	Positive Control Plasmid	resuscitation. No action shall be taken involving any personal risk or without suitable training
	Positive Control Primer Mix	or without suitable training. No action shall be taken involving any personal risk or without suitable training.
	1.1 kb Gel Standard	No action shall be taken involving any personal risk or without suitable training.
	XL10-Gold Ultracompetent cells	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.
	XL10-Gold 2-Mercaptoethanol	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

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apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

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5.1 Extinguishing media		
Suitable extinguishing media	: EZClone Solution Mutazyme II	Use dry chemical, CO ₂ , water spray (fog) or foam. Use an extinguishing agent suitable for the surrounding fire.
	10X Mutazyme II Reaction Buffer	Use an extinguishing agent suitable for the surrounding fire.
	40 mM dNTP Mix (10 mM dNTP)	Use an extinguishing agent suitable for the surrounding fire.
	2X EZClone Enzyme Mix	Use an extinguishing agent suitable for the surrounding fire.
	Dpn I	Use an extinguishing agent suitable for the surrounding fire.
	Positive Control Plasmid	Use an extinguishing agent suitable for the surrounding fire.
	Positive Control Primer Mix	Use an extinguishing agent suitable for the surrounding fire.
	1.1 kb Gel Standard	Use an extinguishing agent suitable for the surrounding fire.
	XL10-Gold Ultracompetent cells	Use an extinguishing agent suitable for the surrounding fire.
	XL10-Gold 2-Mercaptoethanol	Use an extinguishing agent suitable for the surrounding fire.
	pUC 18 DNA Control Plasmid	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing	: EZClone Solution	Do not use water jet.
media	Mutazyme II	None known.
	10X Mutazyme II Reaction Buffer	None known.
	40 mM dNTP Mix (10 mM dNTP)	None known.
	2X EZClone Enzyme Mix	None known.
	Dpn I	None known.
	Positive Control Plasmid	None known.
	Positive Control Primer Mix	None known.
	1.1 kb Gel Standard	None known.
	XL10-Gold Ultracompetent cells	None known.
	XL10-Gold 2-Mercaptoethanol	None known.
	pUC 18 DNA Control Plasmid	None known.
5.2 Special hazards arising	from the substance or mixture	
Specific hazards arising from the chemical	: EZClone Solution	Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a
		pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
	Mutazyme II	In a fire or if heated, a pressure increase will occur and the container may burst.

	10X Mutazyme II Reaction Buffer	In a fire or if heated, a pressure increase will occur
	40 mM dNTP Mix (10 mM dNTP)	and the container may burst. In a fire or if heated, a pressure increase will occur
	2X EZClone Enzyme Mix	and the container may burst. In a fire or if heated, a pressure increase will occur
	Dpn I	and the container may burst. In a fire or if heated, a pressure increase will occur
	Positive Control Plasmid	and the container may burst. In a fire or if heated, a pressure increase will occur
	Positive Control Primer Mix	and the container may burst. In a fire or if heated, a pressure increase will occur
	1.1 kb Gel Standard	and the container may burst. In a fire or if heated, a pressure increase will occur
	XL10-Gold Ultracompetent cells	and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
	XL10-Gold 2-Mercaptoethanol	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful 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.
	pUC 18 DNA Control Plasmid	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: EZClone Solution	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
	Mutazyme II	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	10X Mutazyme II Reaction Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
	40 mM dNTP Mix (10 mM dNTP)	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
	2X EZClone Enzyme Mix	phosphorus oxides Decomposition products may include the following materials: carbon dioxide
	Dpn I	carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds
	Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells	metal oxide/oxides No specific data. No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide
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occuon o. r ne-ngn	ing measures	
	XL10-Gold 2-Mercaptoethanol	carbon monoxide sulfur oxides halogenated compounds metal oxide/oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides halogenated compounds metal oxide/oxides
	pUC 18 DNA Control Plasmid	No specific data.
5.3 Advice for firefighters		
	: EZClone Solution	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water
	Mutazyme II	spray to keep fire-exposed containers cool. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	10X Mutazyme II Reaction Buffer	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	40 mM dNTP Mix (10 mM dNTP)	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	2X EZClone Enzyme Mix	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	Dpn 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.
	Positive Control Plasmid	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
	Positive Control Primer Mix	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
	1.1 kb Gel Standard	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
	XL10-Gold Ultracompetent cells	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
	XL10-Gold 2-Mercaptoethanol	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

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	pUC 18 DNA Control Plasmid	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.
Special protective equipment for fire-fighters	: EZClone Solution	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Mutazyme II	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	10X Mutazyme II Reaction Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	40 mM dNTP Mix (10 mM dNTP)	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	2X EZClone Enzyme Mix	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Dpn I	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Positive Control Plasmid	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	Positive Control Primer Mix	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	1.1 kb Gel Standard	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	XL10-Gold Ultracompetent cells	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive
	XL10-Gold 2-Mercaptoethanol	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	pUC 18 DNA Control Plasmid	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6.1 Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	: EZClone Solution Mutazyme II	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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. 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
	10X Mutazyme II Reaction Buffer	ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate
	40 mM dNTP Mix (10 mM dNTP)	surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. 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
	2X EZClone Enzyme Mix	touch or walk through spilled material. Put on appropriate personal protective equipment. 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
	Dpn I	touch or walk through spilled material. Put on appropriate personal protective equipment. 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
	Positive Control Plasmid	ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. 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
	Positive Control Primer Mix	appropriate personal protective equipment. 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.

	1.1 kb Gel Standard XL10-Gold Ultracompetent cells	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. 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
	XL10-Gold 2-Mercaptoethanol	breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. 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. Do not
	pUC 18 DNA Control Plasmid	breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. 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
For emergency responders :	EZClone Solution	appropriate personal protective equipment. If specialized clothing is required to deal with the
	Mutazyme II	spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also
	10X Mutazyme II Reaction Buffer	the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also
	40 mM dNTP Mix (10 mM dNTP)	the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8
	2X EZClone Enzyme Mix	on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8
	Dpn I	on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8
	Positive Control Plasmid	on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also
	Positive Control Primer Mix	the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8

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	1.1 kb Gel Standard	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). Avoid dispersal of spilled material and runoff and
	Positive Control Plasmid Positive Control Primer Mix	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).
	Dpn I	caused environmental pollution (sewers, 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,
	2X EZClone Enzyme Mix	caused environmental pollution (sewers, 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
	40 mM dNTP Mix (10 mM dNTP)	Inform the relevant authorities if the product has caused environmental pollution (sewers, 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
	10X Mutazyme II Reaction Buffer	caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
	Mutazyme II	caused environmental pollution (sewers, 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
6.2 Environmental precautions	: EZClone Solution	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has
	pUC 18 DNA Control Plasmid	on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	XL10-Gold 2-Mercaptoethanol	on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8
	XL10-Gold Ultracompetent cells	on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8
	1.1 kb Gel Standard	on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8

	XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, 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). 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). 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. 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	: EZClone Solution	Stop leak if without risk. Move containers from spill
	Mutazyme II	area. Use spark-proof tools and explosion-proof equipment. 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. 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.
	10X Mutazyme II Reaction Buffer	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	40 mM dNTP Mix (10 mM dNTP)	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	2X EZClone Enzyme Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste
	Dpn I	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

Positive Control Plasmid	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.
Positive Control Primer Mix	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
1.1 kb Gel Standard	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.
XL10-Gold Ultracompetent cells	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.
XL10-Gold 2-Mercaptoethanol	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.
pUC 18 DNA Control Plasmid	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7.1 Precautions for safe	<u>handling</u>	
Protective measures	: EZClone Solution	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Mutazyme II	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or

		mist. Keep in the original container or an approved
		alternative made from a compatible material, kept tightly closed when not in use. Empty containers
		retain product residue and can be hazardous. Do
		not reuse container.
	10X Mutazyme II Reaction Buffer	Put on appropriate personal protective equipment (see Section 8).
	40 mM dNTP Mix (10 mM dNTP)	Put on appropriate personal protective equipment (see Section 8).
	2X EZClone Enzyme Mix	Put on appropriate personal protective equipment (see Section 8).
	Dpn I	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Positive Control Plasmid	Put on appropriate personal protective equipment (see Section 8).
	Positive Control Primer Mix	Put on appropriate personal protective equipment (see Section 8).
	1.1 kb Gel Standard	Put on appropriate personal protective equipment (see Section 8).
	XL10-Gold Ultracompetent cells	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers
	XL10-Gold 2-Mercaptoethanol	retain product residue and can be hazardous. Do not reuse container. Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin
	pUC 18 DNA Control Plasmid	sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Put on appropriate personal protective equipment
		(see Section 8).
Advice on general : occupational hygiene	EZClone Solution	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Mutazyme II	Eating, drinking and smoking should be prohibited

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

	XL10-Gold 2-Mercaptoethanol	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
	pUC 18 DNA Control Plasmid	for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: EZClone Solution	Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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
	Mutazyme II	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
	10X Mutazyme II Reaction Buffer	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
	40 mM dNTP Mix (10 mM dNTP)	containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been

	opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for
2X EZClone Enzyme Mix	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
Dpn I	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. 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
Positive Control Plasmid	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. 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.
Positive Control Primer Mix	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
1.1 kb Gel Standard	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.

Section 7. Handin	ig and storage	
	XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol	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. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	pUC 18 DNA Control Plasmid	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
7.3 Specific end use(s)		
Recommendations	: EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.

XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid

Not available. Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
EZClone Solution	
Dimethyl sulfoxide	OARS WEEL (United States, 1/2021).
	TWA: 250 ppm 8 hours.
Mutazyme II	
Glycerol	OSHA PEL 1989 (United States, 3/1989).
	TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction
	TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]	None.
omegahydroxy-	
2X EZCIone Enzyme Mix Glycerol	OSHA PEL 1989 (United States, 3/1989).
	TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction
	TWA: 10 mg/m ³ 8 hours. Form: Total dust
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction TWA: 15 mg/m³ 8 hours. Form: Total dust
Polyoxyethylene octyl phenyl ether	None.
Dpn I	
Glycerol	OSHA PEL 1989 (United States, 3/1989).
	TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction
	TWA: 10 mg/m ³ 8 hours. Form: Total dust
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
XL10-Gold Ultracompetent cells	
Glycerol	OSHA PEL 1989 (United States, 3/1989).
	TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction
	TWA: 10 mg/m ³ 8 hours. Form: Total dust
	OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
Dimethyl sulfoxide	OARS WEEL (United States, 1/2021).
·	TWA: 250 ppm 8 hours.
Potassium chloride	None.

Section 8. Exposure controls/personal protection

XL10-Gold 2-Mercaptoethanol	
2-Mercaptoethanol	OARS WEEL (United States, 1/2021).
	Absorbed through skin.
	TWA: 0.2 ppm 8 hours.

Biological exposure indices

No exposure indices known.

8.2 Exposure controls		
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
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 measure	<u>es</u>	
Hygiene measures	:	Handle as biohazard material (Biosafety level 1). 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. Contaminated work clothing should not be allowed out of the workplace. 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.

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

Appearance

Physical state	: EZClone Solution	Liquid. [Clear.]
	Mutazyme II	Liquid.
	10X Mutazyme II Reaction Buffer	Liquid.
	40 mM dNTP Mix (10 mM dNTP)	Liquid.
	2X EZClone Enzyme Mix	Liquid.
	Dpn I	Liquid.
	Positive Control Plasmid	Liquid.
	Positive Control Primer Mix	Liquid.
	1.1 kb Gel Standard	Liquid.
	XL10-Gold Ultracompetent cells	Liquid.
	XL10-Gold 2-Mercaptoethanol	Liquid.
	pUC 18 DNA Control Plasmid	Liquid.
Color	: EZClone Solution	Colorless.
	Mutazyme II	Not available.
	10X Mutazyme II Reaction Buffer	Not available.
	40 mM dNTP Mix (10 mM dNTP)	Not available.
	2X EZClone Enzyme Mix	Not available.
	Dpn I	Not available.
	Positive Control Plasmid	Not available.
	Positive Control Primer Mix	Not available.
	1.1 kb Gel Standard	Not available.
	XL10-Gold Ultracompetent cells	Not available.
	XL10-Gold 2-Mercaptoethanol	Not available.
	pUC 18 DNA Control Plasmid	Not available.
Odor	: EZClone Solution	Odorless. [Slight]
	Mutazyme II	Not available.
	10X Mutazyme II Reaction Buffer	Not available.
	40 mM dNTP Mix (10 mM dNTP)	Not available.
	2X EZClone Enzyme Mix	Not available.
	Dpn I	Not available.
	Positive Control Plasmid	Not available.
	Positive Control Primer Mix	Not available.
	1.1 kb Gel Standard	Not available.
	XL10-Gold Ultracompetent cells	Not available.
	XL10-Gold 2-Mercaptoethanol	Not available.
	pUC 18 DNA Control Plasmid	Not available.
Odor threshold	: EZClone Solution	Not available.
	Mutazyme II	Not available.
	10X Mutazyme II Reaction Buffer	Not available.
	40 mM dNTP Mix (10 mM dNTP)	Not available.
	2X EZClone Enzyme Mix	Not available.
	Dpn I	Not available.
	Positive Control Plasmid	Not available.
	Positive Control Primer Mix	Not available.
	1.1 kb Gel Standard	Not available.
	XL10-Gold Ultracompetent cells	Not available.
	XL10-Gold 2-Mercaptoethanol	Not available.
	pUC 18 DNA Control Plasmid	Not available.
рН	:	

	EZClone Solution	Not available.
	Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZCIone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	8 8.5 7.5 8.8 7.5 7.5 7.5 7.5 6.4 Not available. 7.5
Melting point/freezing point	: EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	18.5°C (65.3°F) Not available. Not available. $0^{\circ}C (32^{\circ}F)$ Not available. $0^{\circ}C (32^{\circ}F)$ $0^{\circ}C (32^{\circ}F)$ $0^{\circ}C (32^{\circ}F)$ Not available. Not available. $0^{\circ}C (32^{\circ}F)$
Boiling point, initial boiling point, and boiling range	: EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	189°C (372.2°F) Not available. Not available. 100°C (212°F) Not available. Not available. 100°C (212°F) 100°C (212°F) Not available. Not available. 100°C (212°F)
Flash point	: EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	Closed cup: 61 to 93.3°C (141.8 to 199.9°F) [ASTM D 93] Open cup: 87°C (188.6°F) Not available. Not available.

	and chemical	<u> </u>					
		(Closed cu	р	Open cup		
	Ingredient name	°C	°F	Method	°C	°F	Method
	Mutazyme II						
	Glycerol				177	350.6	
	10X Mutazyme II						
	Reaction Buffer						
	Sorbitan	275	527		290	554	
	monolaurate, ethoxylated						
	2X EZCIone						
	Enzyme Mix						
	Glycerol				177	350.6	
	Dpn I						
	Glycerol				177	350.6	
	XL10-Gold Ultracompetent						
	cells						
	Dimethyl sulfoxide	87	188.6	ASTM D 93	87	188.6	
	Glycerol				177	350.6	
	XL10-Gold						
	2-Mercaptoethanol						
	2-Mercaptoethanol	74	165.2		74	165.2	
:	EZClone Solution			6 (butyl acetat available.	e = 1)		
	Mutazyme II 10X Mutazyme II Rea	ction Buff		available.			
	40 mM dNTP Mix (10		,	available.			
	2X EZClone Enzyme Dpn I	IVIIX		available. available.			
	Positive Control Plasr			available.			
	Positive Control Prime 1.1 kb Gel Standard	er Mix		available. available.			
	XL10-Gold Ultracomp	etent cells		available.			
		aathanal	Not a	available.			
	XL10-Gold 2-Mercapt			wailahla			
	pUC 18 DNA Control		Not a	available. applicable			
:			Not a Not a	available. applicable. applicable.			
:	pUC 18 DNA Control EZClone Solution Mutazyme II 10X Mutazyme II Rea	Plasmid	Not a Not a Not a er Not a	applicable. applicable. applicable.			
:	pUC 18 DNA Control EZClone Solution Mutazyme II 10X Mutazyme II Rea 40 mM dNTP Mix (10	Plasmid ction Buff mM dNTF	Not a Not a Not a er Not a) Not a	applicable. applicable. applicable. applicable.			
:	pUC 18 DNA Control EZClone Solution Mutazyme II 10X Mutazyme II Rea	Plasmid ction Buff mM dNTF Mix	Not a Not a Not a er Not a P) Not a Not a Not a	applicable. applicable. applicable.			

Evaporation rate

Flammability

Section 9. Physical	and chemica	l prop	erties	and safe	ety ch	aracte	ristics
	1.1 kb Gel Standard XL10-Gold Ultracom XL10-Gold 2-Mercap pUC 18 DNA Control	toethanol	s Not a Not a	applicable. applicable. applicable. applicable.			
Lower and upper explosion init/flammability limit	EZClone Solution		Uppe	er: 2.6% er: 28.5%			
	Mutazyme II 10X Mutazyme II Rea 40 mM dNTP Mix (10 2X EZClone Enzyme Dpn I Positive Control Plas Positive Control Prim 1.1 kb Gel Standard XL10-Gold Ultracom XL10-Gold 2-Mercap pUC 18 DNA Control) mM dNTI Mix mid er Mix petent cells toethanol	er Not a P) Not a Not a Not a Not a Not a Not a Not a Not a	available. available. available. available. available. available. available. available. available. available. available.			
Vapor pressure	 ZClone Solution Mutazyme II 10X Mutazyme II Rea 40 mM dNTP Mix (10 2X EZClone Enzyme Dpn I Positive Control Plas Positive Control Prim 1.1 kb Gel Standard XL10-Gold Ultracom XL10-Gold 2-Mercap pUC 18 DNA Control) mM dNTI Mix mid er Mix petent cells toethanol	Not a er Not a Not a Not a Not a Not a Not a Not a Not a Not a	6 kPa (0.42 m available. available. available. available. available. available. available. available. available. available.	יm Hg) [E	U A.4]	
	Ingradiant name	-	1	re at 20°C Method	Vapor pressure at 50°C mm kPa Method		
	Ingredient name	mm Hg	кга	Method	mm Hg	кга	Wethod
	Mutazyme II						
	water	23.8	3.2		92.258	12.3	
	Glycerol	0.000075	0.00001		0.0025	0.00033	
	10X Mutazyme II Reaction Buffer						
	water	23.8	3.2		92.258	12.3	
	Sorbitan monolaurate, ethoxylated	<1	<0.13				
	40 mM dNTP Mix (10 mM dNTP)						
	water	23.8	3.2		92.258	12.3	

2X EZClone Enzyme Mix

water

23.8

3.2

92.258

12.3

Dpn I water	0.000075 23.8 0.000075	3.2		0.0025	0.00033
water					
				1	
Glycerol	0.000075	0.00004		92.258	12.3
		0.00001		0.0025	0.00033
Positive Control Plasmid					
water	23.8	3.2		92.258	12.3
Positive Control Primer Mix					
water	23.8	3.2		92.258	12.3
1.1 kb Gel Standard					
water	23.8	3.2		92.258	12.3
XL10-Gold Ultracompetent cells					
water	23.8	3.2		92.258	12.3
Dimethyl sulfoxide	0.42	0.056	EU A.4		
XL10-Gold 2-Mercaptoethanol					
water	23.8	3.2		92.258	12.3
2-Mercaptoethanol	0.98	0.13			
pUC 18 DNA Control Plasmid					
water	23.8	3.2		92.258	12.3

Relative vapor density

Section 9. Physical and chemical properties and safety characteristics

,		•	•
Relative density	: EZClone Solution		1.1
-	Mutazyme II		Not available.
	10X Mutazyme II Reaction	Buffer	Not available.
	40 mM dNTP Mix (10 mM	dNTP)	Not available.
	2X EZClone Enzyme Mix		Not available.
	Dpn l		Not available.
	Positive Control Plasmid		Not available.
	Positive Control Primer Mix	x	Not available.
	1.1 kb Gel Standard		Not available.
	XL10-Gold Ultracompetent		Not available.
	XL10-Gold 2-Mercaptoetha		Not available.
	pUC 18 DNA Control Plasr	nid	Not available.
Solubility(ies)	: Media	Resul	lt
	E ZClone Solution		
	water	Soluble	e
	Mutazyme II		-
	water	Soluble	e
	10X Mutazyme II		
	Reaction Buffer		
	water	Soluble	e
	40 mM dNTP Mix (10		
	mM dNTP)		
	, water	Soluble	e
	2X EZClone Enzyme Mix		
	water	Soluble	e
	Dpn I		
	water	Soluble	e
	Positive Control Plasmid	I	
	water	Soluble	e
	Positive Control Primer		
	Mix		
	water	Soluble	e
	1.1 kb Gel Standard		
	water	Soluble	e
	XL10-Gold		
	Ultracompetent cells		
	water	Soluble	e
	XL10-Gold		
	2-Mercaptoethanol		
	water	Soluble	e
	pUC 18 DNA Control		
	Plasmid		
	water	Soluble	e
Partition coefficient: n-	: ZClone Solution		-1.35
octanol/water	Mutazyme II		Not applicable.
	10X Mutazyme II Reaction	Buffer	Not applicable.
	40 mM dNTP Mix (10 mM	dNTP)	Not applicable.
	2X EZClone Enzyme Mix	,	Not applicable.
	Dpn I		Not applicable.
	Positive Control Plasmid		Not applicable.
	Positive Control Primer Mix	x	Not applicable.
	1.1 kb Gel Standard		Not applicable.
	XL10-Gold Ultracompetent		Not applicable.
	XL10-Gold 2-Mercaptoetha		Not applicable.
	pUC 18 DNA Control Plasr	nid	Not applicable.

Section 9. Physical and chemical properties and safety characteristics

Auto-ignition temperature :	EZClone Solution	300 to 302	°C (572 to 575	5.6°F)	
-	Mutazyme II Not available.				
	10X Mutazyme II Reaction Buffer Not available.				
	40 mM dNTP Mix (10 mM dNTP)				
	2X EZClone Enzyme Mix	Not availab			
	Dpn I	Not availab	ole.		
	Positive Control Plasmid Not available. Positive Control Primer Mix Not available.				
	1.1 kb Gel Standard	Not availab	ole.		
	XL10-Gold Ultracompetent cells	Not availab			
	XL10-Gold 2-Mercaptoethanol	Not availab			
	pUC 18 DNA Control Plasmid	Not availat			
	Ingredient name	°C	°F	Method	
	Mutazyme II				
	Glycerol	370	698		
	2X EZCIone Enzyme Mix				
	Glycerol	370	698		
	Dpn I				
	Glycerol	370	698		
	XL10-Gold Ultracompetent cells				
	Dimethyl sulfoxide	300 to 302	572 to 575.6		
	Glycerol	370	698		
	XL10-Gold 2-Mercaptoethanol				
	2-Mercaptoethanol	295	563		
Decomposition temperature :	EZClone Solution		°C (284 to 372	2.2°F)	
	Mutazyme II	Not availab			
	10X Mutazyme II Reaction Buffer	Not availab	ole.		
	40 mM dNTP Mix (10 mM dNTP)	Not availab	ole.		
	2X EZClone Enzyme Mix	Not availab			
	Dpn I	Not availab			
	Positive Control Plasmid	Not availab	ole.		
	Positive Control Primer Mix	Not availab			
	1.1 kb Gel Standard		Not available.		
	XL10-Gold Ultracompetent cells	Not availab	ole.		
	XL10-Gold 2-Mercaptoethanol	Not availat			
		N	1173		
	pUC 18 DNA Control Plasmid	Not availat Dynamic: 2		14 cP)	
	pUC 18 DNA Control Plasmid		2.14 mPa·s (2.	14 cP)	
	pUC 18 DNA Control Plasmid ZClone Solution Mutazyme II	Dynamic: 2 Not availat	2.14 mPa·s (2. ₀le.	14 cP)	
	pUC 18 DNA Control Plasmid ZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer	Dynamic: 2 Not availat Not availat	2.14 mPa·s (2. ⊎le. ⊎le.	14 cP)	
	pUC 18 DNA Control Plasmid ZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP)	Dynamic: 2 Not availat Not availat Not availat	2.14 mPa·s (2. ble. ble. ble.	14 cP)	
	pUC 18 DNA Control Plasmid ZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix	Dynamic: 2 Not availat Not availat Not availat Not availat	2.14 mPa·s (2. lle. lle. lle. lle.	14 cP)	
	pUC 18 DNA Control Plasmid ZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I	Dynamic: 2 Not availat Not availat Not availat Not availat Not availat	2.14 mPa⋅s (2. lle. lle. lle. lle. lle.	14 cP)	
	pUC 18 DNA Control Plasmid ZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix	Dynamic: 2 Not availat Not availat Not availat Not availat	2.14 mPa⋅s (2. ble. ble. ble. ble. ble. ble.	14 cP)	

Section 9. Physical and chemical properties and safety characteristics

	1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	Not available. Not available. Not available. Not available.
Particle characteristics		
Median particle size	 ZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid 	Not applicable. Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity	: EZClone Solution	No specific test data related to reactivity available
To: Treactivity		for this product or its ingredients.
	Mutazyme II	No specific test data related to reactivity available
	Matazymen	for this product or its ingredients.
	10X Mutazyme II Reaction Buffer	No specific test data related to reactivity available
		for this product or its ingredients.
	40 mM dNTP Mix (10 mM dNTP)	No specific test data related to reactivity available
		for this product or its ingredients.
	2X EZClone Enzyme Mix	No specific test data related to reactivity available
	- ,	for this product or its ingredients.
	Dpn I	No specific test data related to reactivity available
		for this product or its ingredients.
	Positive Control Plasmid	No specific test data related to reactivity available
		for this product or its ingredients.
	Positive Control Primer Mix	No specific test data related to reactivity available
		for this product or its ingredients.
	1.1 kb Gel Standard	No specific test data related to reactivity available
		for this product or its ingredients.
	XL10-Gold Ultracompetent cells	No specific test data related to reactivity available
		for this product or its ingredients.
	XL10-Gold 2-Mercaptoethanol	No specific test data related to reactivity available
		for this product or its ingredients.
	pUC 18 DNA Control Plasmid	No specific test data related to reactivity available
		for this product or its ingredients.
10.2 Chemical stability	: EZClone Solution	The product is stable.
Total offermiour stability	Mutazyme II	The product is stable.
	10X Mutazyme II Reaction Buffer	The product is stable.
	40 mM dNTP Mix (10 mM dNTP)	The product is stable.
	2X EZClone Enzyme Mix	The product is stable.
	Dpn I	The product is stable.
	Positive Control Plasmid	The product is stable.
	Positive Control Primer Mix	The product is stable.
	1.1 kb Gel Standard	The product is stable.
	XL10-Gold Ultracompetent cells	The product is stable.
	XL10-Gold 2-Mercaptoethanol	The product is stable.
	pUC 18 DNA Control Plasmid	The product is stable.
	•	

Section 10. Stability and reactivity

· · · · · · · · · · · · · · · · · · ·	EZClone Solution	Under normal conditions of storage and use,
hazardous reactions	Mutazyme II	hazardous reactions will not occur. Under normal conditions of storage and use,
	10X Mutazyme II Reaction Buffer	hazardous reactions will not occur. Under normal conditions of storage and use,
	40 mM dNTP Mix (10 mM dNTP)	hazardous reactions will not occur. Under normal conditions of storage and use,
	2X EZClone Enzyme Mix	hazardous reactions will not occur. Under normal conditions of storage and use,
	Dpn I	hazardous reactions will not occur. Under normal conditions of storage and use,
	Positive Control Plasmid	hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
	Positive Control Primer Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	1.1 kb Gel Standard	Under normal conditions of storage and use, hazardous reactions will not occur.
	XL10-Gold Ultracompetent cells	Under normal conditions of storage and use, hazardous reactions will not occur.
	XL10-Gold 2-Mercaptoethanol	Under normal conditions of storage and use, hazardous reactions will not occur.
	pUC 18 DNA Control Plasmid	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	EZClone Solution	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low
	Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I	or confined areas. No specific data. No specific data. No specific data. No specific data. No specific data.
	Positive Control Plasmid Positive Control Primer Mix	No specific data. No specific data.
	1.1 kb Gel Standard	No specific data.
	XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol	No specific data. No specific data.
	pUC 18 DNA Control Plasmid	No specific data.
10.5 Incompatible materials	EZClone Solution	Reactive or incompatible with the following materials:
	Mutazyme II	oxidizing materials May react or be incompatible with oxidizing materials.
	10X Mutazyme II Reaction Buffer	May react or be incompatible with oxidizing materials.
	40 mM dNTP Mix (10 mM dNTP)	May react or be incompatible with oxidizing materials.
	2X EZClone Enzyme Mix	May react or be incompatible with oxidizing materials.
	Dpn I	May react or be incompatible with oxidizing materials.
	Positive Control Plasmid	May react or be incompatible with oxidizing
	Positive Control Primer Mix	materials. May react or be incompatible with oxidizing materials.

Section 10. Stability and reactivity

	, , , , , , , , , , , , , , , , , , ,	
	1.1 kb Gel Standard	May react or be incompatible with oxidizing materials.
	XL10-Gold Ultracompetent cells	May react or be incompatible with oxidizing materials.
	XL10-Gold 2-Mercaptoethanol	May react or be incompatible with oxidizing materials.
	pUC 18 DNA Control Plasmid	May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	: EZClone Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Mutazyme II	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	10X Mutazyme II Reaction Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be
	40 mM dNTP Mix (10 mM dNTP)	produced. Under normal conditions of storage and use, hazardous decomposition products should not be
	2X EZClone Enzyme Mix	produced. Under normal conditions of storage and use, hazardous decomposition products should not be
	Dpn I	produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Positive Control Plasmid	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Positive Control Primer Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	1.1 kb Gel Standard	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	XL10-Gold Ultracompetent cells	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	XL10-Gold 2-Mercaptoethanol	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	pUC 18 DNA Control Plasmid	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
EZCIone Solution				
Dimethyl sulfoxide	LD50 Dermal	Rat	40000 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-
Mutazyme II				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Poly(oxy-1,2-ethanediyl), .	LD50 Oral	Rat	2800 mg/kg	-
alpha[
ate of issue : 01/16/2	023			

Section 11. Toxico	logical information			
(1,1,3,3-tetramethylbutyl) phenyl]omegahydroxy-				
2X EZClone Enzyme Mix				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Polyoxyethylene octyl phenyl ether	LD50 Oral	Rat	1800 mg/kg	-
Dpn I				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
XL10-Gold Ultracompetent cells				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Dimethyl sulfoxide	LD50 Dermal	Rat	40000 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-
Potassium chloride	LD50 Oral	Rat	2600 mg/kg	-
XL10-Gold				
2-Mercaptoethanol				
2-Mercaptoethanol	LD50 Oral	Rat	244 mg/kg	-
Irritation/Corrosion			·	

Product/ingredient name	Result	Species	Score	Exposure	Observation
EZCIone Solution					
Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Mutazyme II					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
- ,	5			mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Poly(oxy-1,2-ethanediyl), .	Eyes - Severe irritant	Rabbit	-	1 %	-
alpha[
(1,1,3,3-tetramethylbutyl)					
phenyl]omegahydroxy-					
2X EZClone Enzyme Mix					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
- ,	5			mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Polyoxyethylene octyl phenyl	Skin - Mild irritant	Rabbit	-	24 hours 500	-
ether				uL	
Dpn I					
Glycerol	Eyes - Mild irritant	Rabbit		24 hours 500	
			-	mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
XL10-Gold Ultracompetent					
cells					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-

				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Potassium chloride	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
XL10-Gold					
2-Mercaptoethanol	Even Severe irritent	Dabbit		2 mg	
2-Mercaptoethanol	Eyes - Severe irritant	Rabbit	-	2 mg	-

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	• •	Route of exposure	Target organs
XL10-Gold 2-Mercaptoethanol 2-Mercaptoethanol	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
XL10-Gold 2-Mercaptoethanol 2-Mercaptoethanol	Category 2	oral	heart, liver

Aspiration hazard

Not available.

Information on the likely routes of exposure	: ZClone Solution	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Mutazyme II	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	10X Mutazyme II Reaction Buffer	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	40 mM dNTP Mix (10 mM dNTP)	Not available.
	2X EZClone Enzyme Mix	Not available.
	Dpn I	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Positive Control Plasmid	Not available.
	Positive Control Primer Mix	Not available.
	1.1 kb Gel Standard	Not available.

		9.00	
		XL10-Gold Ultracompetent cells	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
		XL10-Gold 2-Mercaptoethanol	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
		pUC 18 DNA Control Plasmid	Not available.
Potential acute health effects	S		
Eye contact		ZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	Causes eye irritation. Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes eye irritation. Causes eye irritation. Causes serious eye damage. No known significant effects or critical hazards.
Inhalation	:	EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact		EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards. May cause an allergic skin reaction. No known significant effects or critical hazards.
Ingestion	:	EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: ZClone Solution	Adverse symptoms may include the following:
		irritation
		watering
	Mutazyme II	redness Adverse symptoms may include the following:
	Mutazyille li	irritation
		watering
		redness
	10X Mutazyme II Reaction Buffer	No specific data.
	40 mM dNTP Mix (10 mM dNTP)	No specific data.
	2X EZClone Enzyme Mix	No specific data.
	Dpn I	Adverse symptoms may include the following:
	1	irritation
		watering
		redness
	Positive Control Plasmid	No specific data.
	Positive Control Primer Mix	No specific data.
	1.1 kb Gel Standard	No specific data.
	XL10-Gold Ultracompetent cells	Adverse symptoms may include the following:
		irritation
		watering
		redness
	XL10-Gold 2-Mercaptoethanol	Adverse symptoms may include the following:
		pain
		watering
		redness
	pUC 18 DNA Control Plasmid	No specific data.
Inhalation	: EZClone Solution	No specific data.
	Mutazyme II	No specific data.
	10X Mutazyme II Reaction Buffer	No specific data.
	40 mM dNTP Mix (10 mM dNTP)	No specific data.
	2X EZClone Enzyme Mix	No specific data.
	Dpn I Desitive Control Discricit	No specific data.
	Positive Control Plasmid Positive Control Primer Mix	No specific data. No specific data.
	1.1 kb Gel Standard	No specific data.
	XL10-Gold Ultracompetent cells	No specific data.
	XL10-Gold 2-Mercaptoethanol	Adverse symptoms may include the following:
		reduced fetal weight
		increase in fetal deaths
		skeletal malformations
	pUC 18 DNA Control Plasmid	No specific data.
Skin contact	EZClone Solution	No specific data.
	Mutazyme II	No specific data.
	10X Mutazyme II Reaction Buffer	No specific data.
	40 mM dNTP Mix (10 mM dNTP)	No specific data.
	2X EZClone Enzyme Mix	No specific data.
	Dpn I	No specific data.
	Positive Control Plasmid	No specific data.
	Positive Control Primer Mix	No specific data.
	1.1 kb Gel Standard	No specific data.
	XL10-Gold Ultracompetent cells	No specific data.
	XL10-Gold 2-Mercaptoethanol	Adverse symptoms may include the following:
		pain or irritation
		redness
		blistering may occur
		reduced fetal weight
		increase in fetal deaths
		skeletal malformations

	pUC 18 DNA Control Plasmid	No specific data.
Ingestion	: EZClone Solution	No specific data.
	Mutazyme II	No specific data.
	10X Mutazyme II Reaction Buffer	No specific data.
	40 mM dNTP Mix (10 mM dNTP)	No specific data.
	2X EZClone Enzyme Mix	No specific data.
	Dpn I	No specific data.
	Positive Control Plasmid	No specific data.
	Positive Control Primer Mix	No specific data.
	1.1 kb Gel Standard	No specific data.
	XL10-Gold Ultracompetent cells	No specific data.
	XL10-Gold 2-Mercaptoethanol	Adverse symptoms may include the following: stomach pains reduced fetal weight
	pUC 18 DNA Control Plasmid	increase in fetal deaths skeletal malformations No specific data.

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

Short term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
<u>Long term exposure</u>		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health eff	<u>ects</u>	
General	 EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol 	No known significant effects or critical hazards. No known significant effects or critical hazards. May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	 pUC 18 DNA Control Plasmid EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid 	No known significant effects or critical hazards. No known significant effects or critical hazards.

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Mutagenicity Reproductive toxicity	 EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Plasmid EZClone Solution Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZClone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Plasmid Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard 	No known significant effects or critical hazards. No known significant effects or critical hazards.
		•

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
EZClone Solution	14500	40000	N/A		N/A
Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A
Mutazyme II					
Glycerol	12600	N/A	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), .alpha[(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	500	N/A	N/A	N/A	N/A
2X EZClone Enzyme Mix					
Glycerol	12600	N/A	N/A	N/A	N/A
Polyoxyethylene octyl phenyl ether	1800	N/A	N/A	N/A	N/A
Dpn I					
Dpn I	130434.8	N/A	N/A	N/A	N/A
Glycerol	12600	N/A	N/A	N/A	N/A
XL10-Gold Ultracompetent cells					
XL10-Gold Ultracompetent cells	136842.1	N/A	N/A	N/A	N/A
Glycerol	12600	N/A	N/A	N/A	N/A
Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A
Potassium chloride	2600	N/A	N/A	N/A	N/A
XL10-Gold 2-Mercaptoethanol					
XL10-Gold 2-Mercaptoethanol	4615.5	4545.5	N/A	60.7	N/A
2-Mercaptoethanol	244	200	N/A	3	N/A

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Section 11. Toxicological information

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
E ZClone Solution			
Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 100 ul/L Marine water	Algae - Ulva lactuca	72 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling,	21 days
		Weanling)	
Mutazyme II			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Poly(oxy-1,2-ethanediyl), .	Acute EC50 210 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
alpha[(1,1,3,3-tetramethylbutyl)			
phenyl]omegahydroxy-			
	Acute LC50 10800 μg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
	Acute LC50 8600 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 7200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
2X EZClone Enzyme Mix			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Polyoxyethylene octyl phenyl ether	Acute LC50 5.85 mg/l Fresh water	Crustaceans - Ceriodaphnia rigaudi - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Dpn I			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
XL10-Gold Ultracompetent			
cells Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 100 ul/L Marine water	Algae - Ulva lactuca	72 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling,	21 days
Deteccium chlaride		Weanling)	70
Potassium chloride	Acute EC50 9.24 g/L Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 1337000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 83000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.68 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	48 hours
	Acute LC50 509.65 mg/l Fresh water	Fish - Danio rerio	96 hours

12.2 Persistence and degradability

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Product/ingredient name	Test	Result		Dose	Inoculum	
EZCIone Solution Dimethyl sulfoxide	OECD 301D Ready Biodegradability - Closed Bottle Test	31 % - Not readily - 28 days		-	-	
Mutazyme II Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days		-	-	
2X EZCIone Enzyme Mix Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 c	lays	-	-	
Dpn I Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 c	lays	-	-	
XL10-Gold Ultracompetent						
cells Glycerol	301D Ready Biodegradability - Closed Bottle	93 % - 30 days		-	-	
Dimethyl sulfoxide	Test OECD 301D Ready Biodegradability - Closed Bottle Test	31 % - Not readily - 28 days		-	-	
XL10-Gold 2-Mercaptoethanol 2-Mercaptoethanol	OECD 310 Ready Biodegradability - CO ₂ in Sealed Vessels (Headspace Test)	69 % - Not readily - 60 days		20 mg/l	-	
Product/ingredient name	Aquatic half-life	Aquatic half-life Photolysis			Biodegradability	
EZCIone Solution Dimethyl sulfoxide			-		Not readily	
2X EZCIone Enzyme Mix Polyoxyethylene octyl phenyl ether	-		-		Readily	
XL10-Gold Ultracompetent cells						
Dimethyl sulfoxide	-	-			Not readily	
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Section 12. Ecological information				
Potassium chloride	-	-	Readily	
XL10-Gold 2-Mercaptoethanol 2-Mercaptoethanol	-	-	Not readily	

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
EZCIone Solution			
Dimethyl sulfoxide	-1.35	3.16	low
Mutazyme II			
Glycerol	-1.76	-	low
Poly(oxy-1,2-ethanediyl), .	2.7	78.67	low
alpha[
(1,1,3,3-tetramethylbutyl)			
phenyl]omegahydroxy-			
2X EZClone Enzyme Mix			
Glycerol	-1.76	-	low
Polyoxyethylene octyl phenyl	4.86	-	high
ether			
Dpn I			
Glycerol	-1.76	-	low
XL10-Gold Ultracompetent			
cells			
Glycerol	-1.76	-	low
Dimethyl sulfoxide	-1.35	3.16	low
Potassium chloride	-0.46	-	low
XL10-Gold			
2-Mercaptoethanol			
2-Mercaptoethanol	-0.056	-	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: 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. Vapor from product residues may create a highly flammable or explosive atmosphere

Section 13. Disposal considerations

inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. 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 / : Not regulated. IATA

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

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

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

U.S. Federal regulations	: FSCA 8(a) PAIR: Polyoxyethylene octyl phenyl ether; Poly(oxy-1,2-ethanediyl), .alp (1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy-	
	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)	: 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	
<u>SARA 302/304</u>		
Composition/information	on ingredients	
No products were found.		
SARA 304 RQ <u>SARA 311/312</u>	: Not applicable.	

Section 15. Regulatory information

Classification

ZClone Solution

Mutazyme II 10X Mutazyme II Reaction Buffer 40 mM dNTP Mix (10 mM dNTP) 2X EZCIone Enzyme Mix Dpn I Positive Control Plasmid Positive Control Primer Mix 1.1 kb Gel Standard XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol

FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2B EYE IRRITATION - Category 2B Not applicable. Not applicable. Not applicable. EYE IRRITATION - Category 2B Not applicable. Not applicable. Not applicable. EYE IRRITATION - Category 2B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Not applicable.

pUC 18 DNA Control Plasmid

Composition/information on ingredients

Name	%	Classification	
EZCIone Solution Dimethyl sulfoxide	100	FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2B	
Mutazyme II Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B	
2X EZCIone Enzyme Mix Glycerol	<10	EYE IRRITATION - Category 2B	
Dpn I Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2B	
XL10-Gold Ultracompetent cells			
Glycerol Dimethyl sulfoxide	≥10 - ≤25 ≤10	EYE IRRITATION - Category 2B FLAMMABLE LIQUIDS - Category 4	
Sucrose	≤10	EYE IRRITATION - Category 2B COMBUSTIBLE DUSTS	
Potassium chloride	≤3	EYE IRRITATION - Category 2B	
XL10-Gold 2-Mercaptoethanol			
2-Mercaptoethanol	≤5	FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 2 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	

YL SULFOXIDE
)L

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Section 15. Regulatory information

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list	
Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Eurasian Economic Union	: Russian Federation inventory: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: All components are active or exempted.
Viet Nam	: Not determined.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
E ZClone Solution	
FLAMMABLE LIQUIDS - Category 4	On basis of test data
EYE IRRITATION - Category 2B	On basis of test data
Mutazyme II	
EYE IRRITATION - Category 2B	Calculation method
Dpn I	
EYE IRRITATION - Category 2B	Calculation method
XL10-Gold Ultracompetent cells	
EYE IRRITATION - Category 2B	Calculation method
XL10-Gold 2-Mercaptoethanol	
SERIOUS EYE DAMAGE - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
TOXIC TO REPRODUCTION - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method

<u>History</u>

Date of issue : 01/16/2023

Section 16. Other information

Date of issue	: 01/16/2023
Date of previous issue	: 03/19/2021
Version	: 7
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available UN = United Nations

✓ Indicates information that has changed from previously issued version.

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