

SuperPrep™ miRNAAssay™ Cell Lysis & RT Kit for qPCR

TOYOBO

First issue : May. 25, 2023
Revised : Jun. 10, 2024
SDS No.2427F

Safety Data Sheet

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the product	<i>SuperPrep™ miRNAAssay™ Cell Lysis & RT Kit for qPCR</i>
Product Code	MIR-201, 201T
SUPPLIER	
Name	TOYOBO Co., Ltd.
Address	Osaka Umeda Twin Towers South, 1-13-1 Umeda, Kita-ku, Osaka 530-0001, Japan
Department	Biotechnology Overseas Sales and Marketing Department
Emergency Telephone No.	+81-6-6348-3846
Fax No.	+81-6-6348-3833
Recommended use and restrictions on use	Cell lysis and cDNA synthesis for qPCR (Reagents for research)

2 HAZARDS IDENTIFICATION

Most Important Hazards	Few adverse human health effects
Specific Hazards	Not available
GHS Classification	Classification not possible

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Product	Mixture	
(Substance/Mixture)		
Chemical Nature	Aqueous solution	
Parts Name	Main Component	CAS No.
Lysis Solution	Tris(hydroxymethyl)aminomethane	77-86-1:0.01-0.1%
	Surfactant B	-
	Proteinase K	39450-01-6:<0.1%
	Glycerol	56-81-5:<10%
gDNA Remover	Glycerol	56-81-5:Approx.50%
	Deoxyribonuclease	9003-98-9:0.1-1%
RNase Inhibitor	Glycerol	56-81-5:Approx.50%
	4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid	7365-45-9:0.1-1%
	Polyoxyethylene (20) sorbitan monolaurate	9005-64-5:<0.1%
	RNase Inhibitor	-
5xRT Master Mix	Tris(hydroxymethyl)aminomethane	77-86-1:1-10%
	Deoxyadenosine triphosphate	1927-31-7:<1%
	Deoxycytidine triphosphate	102783-51-7:<1%
	Deoxyguanosine triphosphate	93919-41-6:<1%
	Deoxythymidine triphosphate	18423-43-3:<1%
	Polyoxyethylene (20) sorbitan monolaurate	9005-64-5:0.05-0.2%
	Glycerol	56-81-5:Approx.40%
	Reverse Transcriptase	9068-38-6:<0.1%
	RNase Inhibitor	- : <0.1%
5xRT Master Mix no-RT	Tris(hydroxymethyl)aminomethane	77-86-1:1-10%
	Deoxyadenosine triphosphate	1927-31-7:<1%
	Deoxycytidine triphosphate	102783-51-7:<1%
	Deoxyguanosine triphosphate	93919-41-6:<1%
	Deoxythymidine triphosphate	18423-43-3:<1%
	Polyoxyethylene (20) sorbitan monolaurate	9005-64-5:0.05-0.2%
	Glycerol	56-81-5:Approx.40%
	RNase Inhibitor	-
Nuclease-free Water	Water	7732-18-5

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3 COMPOSITION / INFORMATION ON INGREDIENTS(CONTINUED)

Components Contributing to the Hazard

Common Chemical Name (or Generic Name)	Surfactant B	Glycerol
Synonyms	-	Glycerin
Chemical formula	-	CH ₂ (OH)CH(OH))CH ₂ (OH)
CAS No.	-	56-81-5
Concentration	< 0.1%	approximately 50%
Common Chemical Name (or Generic Name)	4-(2-hydroxyethyl)- 1-piperazineethane sulfonic acid	
Synonyms	HEPES	
Chemical formula	C ₈ H ₁₈ N ₂ O ₄ S	
CAS No.	7365-45-9	
Concentration	0.5%	

4 FIRST-AID MEASURES

Inhalation	In case of irritation by inhaling this product, move affected person to fresh air and await recovery. If irritation persists, seek immediate medical attention.
Skin Contact	Wash with plenty of clean water, immediately.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Try to get the affected person to vomit as much as possible. Seek medical attention, immediately.

5 FIRE-FIGHTING MEASURES

Extinguishing Media	Water, Carbon Dioxide, Foam, Dry Chemical Powder
Protection of fire-fighters	Fire-fighting should be done from the windward side of fire area. Fire-fighters should wear proper protective equipment in case of large scale fire.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear protective equipments and avoid eye/skin contact and inhalation.
Environmental Precautions	Avoid disposition to the environment.
Methods for Cleaning up	Use cloth, paper, or anything similar to soak up to the solution leaking out of the container. Take up under vacuum using dust collecting filter.

7 HANDLING AND STORAGE

HANDLING	
Technical Measures	Wear protective equipments and avoid contact with eyes and skin. Handle with ventilation and local exhaust system.
Precautions	Avoid substance contact. After handling, wash with clean water.
Safe Handling Advice	Good laboratory technique should be
STORAGE	
Safe Storage Conditions	Keep away from fire and heat sources. Keep away from wind, rain and direct sunlight. Store away from strong oxidizers. Keep container tightly closed. Store at below -20°C
Packaging Materials	Store in the original package



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8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

ENGINEERING Set up good ventilation and exhaust system in the work area.
MEASURES Provide washing facilities nearby.

Control Parameter

Limit Values

Surfactant B

Glycerol
(mist)

JSOH OEL	not established	not established
ACGIH TLV	not established	—
OSHA PEL	not established	total dust: 15mg/m ³ TWA respirable fr.: 5mg/m ³ TWA

Limit Values

4-(2-hydroxyethyl)-
1-piperazineethane
sulfonic acid

JSOH OEL	not established
ACGIH TLV	not established
OSHA PEL	not established

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection Wear a dust mask when needed.
Hand Protection Wear chemical safety gloves.
Eye Protection Wear protective eyeglasses or chemical safety goggles.
Skin and Body Protection Wear lab coat when needed.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid. Lysis Solution, and Nuclease-free Water freeze at -20°C.

Colour Colourless

Odour None

pH 6.0-9.0

Flash Point No flammability due to aqueous solution, but glycerol whose flash point 160°C may stay behind after volatilization 5×Master Mix、 5×Master Mix no-RT-Control、 Lysis Solution、

Explosion limit gDNA remover、 RNase Inhibitor.
Not explosive

Density None

Solubility Soluble in water

10 STABILITY AND REACTIVITY

Stability Stable at below -20°C.

Possible Hazardous Nothing particular

Reactions

Conditions to Avoid High temperature, ignition sources, direct sunlight

Material to Avoid Strong oxidizer, strong reducers

Hazardous Decomposition Not available

Product

11 TOXICOLOGICAL INFORMATION

Acute Toxicity Not available

Local Effects May cause eye and skin irritation.
May cause respiratory and digestive

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12 ECOLOGICAL INFORMATION

Mobility	Soluble in water and diffusible into
Persistence/Degradability	Not available
Bioaccumulation	Not available

13 DISPOSAL CONSIDERATIONS

Waste from Residues	Dispose of in accordance with all applicable local and national laws and regulations.
Contaminated Packaging	Dispose of in accordance with all applicable local and national laws and regulations.

14 TRANSPORT INFORMATION

International Regulations	
UN Classification Number	Not classified
Specific Precautions	To prevent packages from breaking, handle with care. When transporting, transport at temperatures below -20°C.

15 REGULATORY INFORMATION

Follow all of the laws and regulations in your country.

16 OTHER INFORMATION

Notice	The information in this SDS, to the best of our knowledge, is accurate and correct. However, TOYOBO makes no warranty and assumes no liability whatsoever in connection with any use of this information. The SDS is subject to revision as new information becomes available.
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