

KOD-Plus- Mutagenesis Kit First issue: Jan. 18, 2007

MSDS No.

Material Safety Data Sheet

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name KOD-Plus- Mutagenesis Kit

Product Code SMK-101

SUPPLIER

Name Biotech support Department TOYOBO Co., Ltd. Address 2-2-8 Dojima Hama Kita-ku Osaka, 530-8230 Japan

Emergency Telephone No. +81-6-6348-3786 Fax No. +81-6-6348-3833

2 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Product Preparation

(Substance/Preparation)

Chemical Nature Aqueous solutions of enzyme, antibody and other compounds.

<u>nemicai Nature</u>	Aqueous solutions of enzyme, antibody and other compounds.		
Parts Name	Main components	CAS No.	Concentratio
KOD -Plus-	DNA Polymerase	-	<1%
	Antibody	-	<1%
	Glycerol	56-81-5	Ca. 50%
10x Buffer for iPCR	Tris(hydroxymethyl)	77-86-1	<10%
	aminomethane		
	Magnesium Salfate	10034-99-8	Ca. 20mM
2mM dNTPs	deoxyadenosine 5'triphosphate	1927-31-7	2mM each
	deoxycytidine 5'triphosphate	102783-51-7	
	deoxyguanosine 5'triphosphate	93919-41-6	
	deoxythymidine 5'triphosphate	18423-43-3	
DpnI	Enzyme	-	<1%
	Glycerol	56-81-5	Ca. 50%
T4 Polynucleotide Kinase	Enzyme	-	<1%
	Glycerol	56-81-5	Ca. 50%
Ligation high	Ligase	-	<1%
	Magnesium Chloride	7791-18-6	<1%
	Adenosine 5'triphosphate	51963-61-3	<1%
	Tris(hydroxymethyl)	77-86-1	<10%
	aminomethane		
Control Plasmid	DNA	-	<1%
Control Primer #1	oligo DNA	-	<1%
Control Primer #2	oligo DNA	-	<1%

3 HAZARDS IDENTIFICATION

Most Important Hazards May cause eye and skin irritation. May cause respiratory and

digestive tract irritation.

Specific Hazards Not available



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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 clean water, immediately.

Eye Contact Flush eyes with clean water for more than 15 minutes and

seek medical attention.

Ingestion Induce vomiting.

If indisposition continues, seek medical attention.

5 FIRE-FIGHTING MEASURES

Extinguishing Media Water, Carbon Dioxide, Foam, Dry Chemical Powder

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid substance contact

Environmental Precautions Do not discharge directly into sewers.

Methods for Cleaning up Sweep up, place in a bag and hold for waste disposal.

Ventilate area and wash spill site after material pickup is

complete.

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 Keep away from fire or heat.

Safe Handling Advice Good laboratory technique should be used when handling this

product.

STORAGE

Technical Measures Store in the sampling tube.

Storage Conditions Store at about -20

Incompatible Products Oxidizers

Packaging Materials Store in the original package

8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

ENGINEERING MEASURES

Set up good ventilation and exhaust system in the work area.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection Wear a gas mask.

Hand Protection Chemical safety gloves. Eye Protection Chemical safety goggles.

Skin and Body Protection Long sleeves to prevent contact with skin.



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9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State liquid
Colour colourless
Odour none
pH 7.0-8.5

Boiling Point Not available
Melting Point Not available
Decomposition Temperature Not available
Flash Point Not available
Density Not available
Solubility Soluble in water.

10 STABILITY AND REACTIVITY

Stability Stable under normal handling and storage conditions

Possible Hazardous None

Reactions

Conditions to Avoid Not available

Material to Avoid Strong acids, strong alkalines and strong oxidizers

Hazardous Decomposition Not available

Product

11 TOXICOLOGICAL INFORMATION

Acute Toxicity Not available Local Effects Not available

12 ECOLOGICAL INFORMATION

Mobility Not available
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 the same way as the material.

14 TRANSPORT INFORMATION

International Regulations

UN Classification Number Not classified

Follow all of the laws and regulations in your respective

Specific Precautions To prevent packages from breaking, handle with care.

15 REGULATORY INFORMATION

Follow all of the laws and regulations in your country.

16 OTHER INFORMATION

Notice The information in this MSDS, 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 MSDS is subject to revision as new information becomes

available.