



Material Safety Data Sheet

Parstous Tissue Genomic DNA Extraction Kit

Version 2

First issue : Dec. 26, 2020

Revised : Feb. 02, 2021

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Product Name: Parstous Tissue Genomic DNA Extraction Kit

Product Code: A101211

Intended Use: Laboratory use

Supplier:

Company: Parstous Biotechnology Co., Ltd Address: Unit 18, North East Food
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2. HAZARDS IDENTIFICATION

Hazard Class and	Eye Irrit. 2.
Category Code(s):	Skin Irrit. 2.
	Resp Sens. 1.
Hazard Statement	H315 Causes skin irritation.
Code(s):	H319 Causes serious eye irritation.
	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components

Proteinase K: 1 piece(s)

Ingredients

< 5 % Proteinase K; EC No. 254-457-8 CAS-No. 39450-01-6

Pictograms: GHS08

Signal Word Code(s): Dgr

Hazard Statement Code(s): H315, H319, H334

50 % Glycerol; EC No.200-289-5 CAS-No. 56-81-5

Pictograms: GHS07

Signal Word Code(s): Wng

Hazard Statement Code(s): H315, H319

Lysis Buffer: 1 piece(s)

Labelling: not required

Contains no hazardous substances in concentrations to be declared

Tissue Binding Buffer : 1 piece(s)

Hazard Statement Code(s): H315, H319

Pictograms or symbols



Wash Buffer 1 : 1 piece(s)

Hazard Statement Code(s): H315, H319

Pictograms or symbols



Wash Buffer 2 : 1 piece(s)

Labelling: not required

Contains no hazardous substances in concentrations to be declared

Elution Buffer : 1 piece(s)

Labelling: not required

Contains no hazardous substances in concentrations to be declared

4. FIRST AID MEASURES

Causes skin irritation.: Rinse skin with water/shower.

Causes serious eye irritation.: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Harmful if swallowed: Call a POISON CENTER or doctor/physician if you feel unwell.

Harmful if inhaled: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

5. FIRE-FIGHTING MEASURES

Extinguishing media: CO₂, extinguishing powder or water spray.

6. ACCIDENTAL RELEASE MEASURES

Actions to be taken on spillage:

Wash off small quantities with plenty of water. Absorb larger quantities of spilled substance with fluid binders and dispose of suitably. "

Absorbent material:

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations

Actions to be taken to limit damage:

Prevent discharge of the product into the sewage system, cesspits and cellars. Vapours produce potentially explosive atmosphere. If substance has entered a water course or sewer or contaminated soil, advise police or fire brigade.

7. HANDLING AND STORAGE

Handling: Take measures against electrostatic loading. Exhaust fumes at source.

Storage: at 15~ 25°C | 59~ 77°F.

Do not store together with: No restriction.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection: Filter A only in the case of a given exposure.

Eye protection: Safety glasses

Hand protection: Protective gloves

Hygiene measures: Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Proteinase K

Form: liquid

Miscibility with water: completely miscible

pH: 7,5

Lysis Buffer

Form: liquid

Miscibility with water: completely miscible

pH: > 6,0,

< 7,0

Binding Buffer

Form: liquid

Miscibility with water: completely miscible

pH: 6,0,

Wash Buffer A

Form: liquid

Miscibility with water: completely miscible

pH: 6,6

Wash Buffer B

Form: liquid

Miscibility with water: completely miscible

pH: 4,0

Elution Buffer

Form: liquid

Miscibility with water: completely miscible

pH: 5-9

10. STABILITY AND REACTIVITY

Hazardous reactions: Reacts with acids to form toxic gases.

11. TOXICOLOGICAL INFORMATION**Proteinase K***Glycerol*

Oral toxicity: LD50 rat 12.600 mg/kg

LD50 mouse 4.090 mg/kg

LD50 guinea pig 7.750 mg/kg

Toxicity (inhalation): LC50 rat 1 h > 570 mg/m³ (1 h)

Toxicity (skin contact): LD50 rabbit > 10.000 mg/kg

Toxicity (others): LD50 subcutane rat 100 mg/kg

LD50 subcutane mouse 91 mg/kg

LD50 intravenous rat 5.566 mg/kg

LD50 intravenous mouse 4.250 mg/kg

LD50 intraperitoneal rat 4.420 mg/kg

LD50 intraperitoneal mouse 8.700 mg/kg

Toxicological information for the product

Harmful substance / product.

12. ECOLOGICAL INFORMATION

Water hazard class: 2 hazardous to water and ground Self-classification

Proteinase K*Glycerol*

Toxicity to fish : LC50 *Leuciscus idus* > 10.000 mg/l

LC50 *Carassius auratus* (Goldfish) > 5.000 mg/l (2 d)

Toxicity to algae : IC50 *Scenedesmus quadricauda* > 10.000 mg/l (168 h)

Toxicity to bacteria: EC50 *Pseudomonas putida* > 10.000 mg/l (16 h)

Toxicity to daphnia: EC50 *Daphnia magna* > 10.000 mg/l (24 h)

Value log P(o/w): -2,66

Biodegradability: > 60 % 28 d Closed bottle test

71 % 5 d BSB method

95 % COD (chemical oxygen demand)

13. DISPOSAL CONSIDERATIONS

Waste disposal route: Can be sent to an incineration plant in accordance with local regulations.

Disposal of empty packaging: Empty packaging can be disposed of via local recycling channels.

14. TRANSPORT INFORMATION

14.1 UN Number: Not relevant

14.2 UN proper shipping name: Not relevant

14.3 Transport hazard class (es):

ADR: Not classified

IMDG: Not classified

ICAO/IATA: Not classified

RID: Not classified

DOT: Not classified

14.4 Packaging group: Not applicable

14.5 Environmental hazards: Not relevant

14.6 Special precautions for user: Not special precautions

14.7 This product is safe under IATA DGR 57th Edition 2016.

15. REGULATORY INFORMATION**Labelling according to EC-Directives**

Note: This product must be labeled in accordance with EC 1272/2008, EEC directive 67/548 and 99/45.

Hazard Class and Eye Irrit. 2.

Category Code(s): Skin Irrit. 2.

Resp Sens. 1.

Hazard Statement H315 Causes skin irritation.

Code(s): H319 Causes serious eye irritation.

Safety advice:

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

P305 IF IN EYES:

P351 Rinse cautiously with water for several minutes.

P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P302 IF ON SKIN:

P352 Wash with plenty of soap and water.

P304 IF INHALED:

P341 If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

16. OTHER INFORMATION

Further information

The information herein is believed to be correct as of the date hereof but is provided without warranty of any kind. The recipient of our product is responsible for ensuring that, where applicable, existing laws and guidelines are observed.