

## MATERIAL SAFETY DATA SHEET

Cat. No. 51900

Version 1.0

Revision Date 22/05/2019

### SECTION 1. IDENTIFICATION

<b>Product:</b>	$\alpha$ 1-Microglobulin Assay Kit
<b>Company:</b>	ImmunoDiagnostics Limited
	5/F, Biotech Centre 2, No. 11 Science Park West Avenue Hong Kong Science Park, Sha Tin, Hong Kong
<b>Tel:</b>	(+852) 3502 2780/ Fax: (+852) 3502 2781
<b>Email:</b>	<a href="mailto:info@immunodiagnostics.com.hk">info@immunodiagnostics.com.hk</a>
<b>Emergency phone number:</b>	Please contact your local Poison Control Centre Australia – 131126 New Zealand – (0)34747000 United States – 1800 222 1222
<b>Recommended use:</b>	Scientific research and development

### 2. INFORMATION ON PRODUCT/PREPARATION COMPOSITION

The product contains the following hazardous substances and those with the following highest permissible concentrations in the working environment:

#### 2.1 Reaction buffer 1 (A buffer containing salt, polyether compound and preservative. 30ml)

Component	CAS #	% W/V
NaCl	7647-14-5	<5%
Sodium dihydrogen phosphate	13472-35-0	<0.5%
Disodium hydrogen phosphate	10039-32-4	<0.5%
PEG8000	25322-68-3	<3%
Procline 300	96118-96-6	<0.03%

#### 2.2 Reaction buffer 2 (a buffer containing polystyrene micro-particles coat with rabbit antibodies, salt, and preservative. 10ml)

Component	CAS #	% W/V
Antibody	N/A	<0.1%
BSA	9048-46-8	<1%
polystyrene micro-particles	9003-53-6	<1%
NaCl	7647-14-5	<5%
Sodium dihydrogen phosphate	13472-35-0	<0.5%
Disodium hydrogen phosphate	10039-32-4	<0.5%
Procline 300	96118-96-6	<0.03%

**Risk symbols**

C Corrosive

**Risk phrases**

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

R21/22 Harmful in contact with skin and if swallowed

R22 Harmful if swallowed

R35 Cause severe burns

R36/37/38 Irritating to eyes, respiratory system and skin

R40 Possible risk of irreversible effects

**Safety phrases**

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S30 Never add water to this product

S36/37 Wear suitable protective clothing and gloves

S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

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**3. SUBSTANCE/PREPARATION HAZARDS DATA**

The amount of dangerous substance is under the limit on which the kit is considered dangerous as a whole.

**When used, the most adverse impacts of the substance/preparation on human health include:**

The followed components can damage health if ingested and/or can irritate eyes and skin:  
Sample diluent buffer

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**4. FIRST AID MEASURES****Eye Contact:**

Check for and remove contact lenses. Flush eyes with water for at least 15 minutes. Get medical attention.

**Skin contact:**

Wash skin thoroughly with soap and water. Remove and wash contaminated clothing. Should irritation occur get medical attention.

**Inhalation:**

If inhaled remove to fresh air. If breathing is affected seek medical attention.

**Ingestion:**

Flush out mouth and drink large amounts of water. Seek medical attention if symptoms appear.

**Wounds:**

Allow to bleed freely. Wash thoroughly with soap and water. Get medical attention.

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**5. FIRE FIGHTING MEASURES**

**Suitable fire-extinguishing media:** Carbon dioxide, dry powder, foam, water.

**Thermal decomposition:** No thermal decomposition degradation products are expected.

**Special hazards:** None.

**Special protective means for firemen:** None.

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## 6. ACCIDENTAL RELEASE MEASURES

**Safety measures to protect humans:** Avoid contact with skin and eyes.

**Environmental safety measures:** Avoid penetration into sewerage systems, surface and ground water. Avoid soil pollution.

**Recommended cleaning and disposal methods:** Cover with suitable absorbing material. After removing the substance, rinse the spot of spilling thoroughly with water and soap.

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## 7. HANDLING AND STORAGE

**Handling instructions:** Avoid contact with skin, eyes and clothing. Use suitable protective means to work with the substance.

**Storage instructions:** Store at temperatures between + 2 and + 8°C in a dry and dark place.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Technical measures:** Do not eat, drink and smoke when working with the kit. Use the kit only in rooms enabling good ventilation. Local exhaustion is necessary, general (forced) exhaustion is recommended.

**Personal protective means – protection of respiratory organs:** None

**Personal protective means – eye protection:** None

**Personal protective means – hand protection:** Protective gloves (wash your hands before and after work)

**Personal protective means – body protection:** Protective clothing

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Melting point/freezing point: -40°C

Boiling point/Boiling range: 189°C

Flash point: 118°C – closed cup

Evaporation rate: Not available

Flammability (solid, gas): Not available

Upper/lower flammability or explosive limits: Not available

Vapor density : Not available

Vapor pressure: Not available

Auto igniting: Not available

Decomposition temperature: Not available

Viscosity: Not available

Liquids: Reaction buffer 1, Reaction buffer 2

Color: Colorless: Reaction buffer 1, white: Reaction buffer 2

pH value (at 25°C): 6.8 - 7.4

## 10. STABILITY AND REACTIVITY

**Conditions to be avoided:** Heat

**Substances and materials with which the product is not allowed to get in touch:** Not Known

**Hazardous decomposition products:** Not known

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## 11. TOXICOLOGICAL INFORMATION

### Toxicological information

No data available

**Acute toxicity-LD50 orally, rat (mg/kg):** No data available

**Irritability:** No data available

**Mutagenicity:** No data available

**Reproduction toxicity:** No data available

**Tests on animals:** No data available

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## 12. ECOLOGICAL INFORMATION

Water hazard class: 2 (water-damaging substances)

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## 13. DISPOSAL CONSIDERATIONS

### The manner of disposing the substance/preparation:

Mix or dissolve the material in a combustible solvent and burn up in a facility whose equipment matches all regulations in effect. Every waste disposal must be carried out in coincidence with national and local legislation or administrative regulations respectively.

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## 14. TRANSPORT INFORMATION

**Overland transportation (ADR/RID):** As a mixture, the substance is subject to no limitations.

**Transatlantic transportation (IMDG):** As a mixture, the substance is subject to no limitations.

**Air transportation (ICAO/IATA):** As a mixture, the substance is subject to no limitations.

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## 15. INFORMATION ON LEGAL REGULATIONS

According to the Act No. 356/2003 Coll. on chemical substances and chemical preparations and on amendments in some other laws and acts, components contained in the  $\alpha$ 1-Microglobulin Assay Kit are non-hazardous substances in said concentrations.  $\alpha$ 1-Microglobulin Assay Kit is subject to special marking regulations according to the EC regulations (28/10/1999).

$\alpha$ 1-Microglobulin Assay Kit :

R20/21/22-21/22-22-35-36/37/38-40

S26-30-36/37-45

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## 16. OTHER INFORMATION

*The material safety data sheet contains data necessary to ensure safety and health and environmental protection in working with chemical substances. The above-stated data match the contemporary state of knowledge and experience and are in coincidence with legal regulations currently in effect. This product is a chemical substance and can be solely used by persons with chemical education at their own risk.*

*$\alpha$ 1-Microglobulin Assay Kit is designed for biomedical research. The manufacturer has no responsibility for damage caused by unsuitable use and by disrespecting the enclosed working instructions.*

*The above-stated information cannot be considered as complete and must be understood to be only a methodical instruction.*