

**MATERIAL SAFETY DATA SHEET****TECO® Fast Fungus (1-3)-β-D-Glucan Lateral Flow Assay**

Doc. TE1088

Date: 30-Sep-2024

**Section 1 - Product and Company Identification****1.1 Manufacturer Information**

*Dynamiker Biotechnology (Tianjin) Co., Ltd.*, No.2 Building, Rongzhi Industry Park, No. 3667, Zhongbin Avenue, Sino-Singapore Eco-city, TEDA, Tianjin300467, China.

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**1.2 EU representative**

*Lotus NL BV*, Koninging Julianaplein 10, 1e verd. 2595 AA The Hague, The Netherlands

**1.3 Product Information**

Product Name: TECO® Fast Fungus (1-3)-β-D-Glucan Lateral Flow Assay  
(Catalogue #: TE1088, UDI-DI 6930317801462)

**\*\*For in vitro diagnostic use only\*\***

**\*\*For professional use only\*\***

Product form: Mixture (kit)

Intended Use: TECO® Fast Fungus (1-3)-β-D-Glucan Lateral Flow Assay is intended for quantitative determination of fungal (1-3)-β-D-glucan in human serum or plasma samples.

Components: Test Cassette, Sample treatment solution A, Sample treatment solution B, Control 1, Control 2

**Section 2 – Hazards Identification****2.1 Classification according to (EC) No. 1272/2008 (CLP)**

Not classified

**2.2 Label elements according to (EC) No. 1272/2008**

EUH phrases: EUH210 see section 16 for full text

**2.3 Other Hazards**

None classified

**Section 3 – Composition / Information on Ingredients****3.1 Substance**

Not applicable

**3.2 Mixtures**

The hazards identified with this product are those associated with the following component (s)

Ingredient Name	Pictogram	Kit Component	%	Product identifier	Classification according to (EC) 1272/2008	Specific concentration limits
KOH		Sample treatment solution A	1.68 w/v	CAS-No. 1310-58-3 EC-No. 215-181-3	H302 H314 H315 H319	Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0,5 % ≤ C < 2 % Eye Irrit. 2; H319: 0,5 % ≤ C < 2 %

The full text of the H phrases can be found in section 16



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## Section 4 – First Aid Measures

### 4.1 Description of first-aid measures

#### General

If you feel unwell, ask for medical attention (show the labels where possible).

#### After skin contact

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by a warm water rinse.

#### After eye contact

Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do and continue rinsing.

#### After Inhalation

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

#### After Ingestion

If patient is conscious, wash out mouth with water and give at least 3 – 5 glasses of water to drink. Do not induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

Not expected to present a significant hazard under anticipated conditions or normal use.

### 4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

## Section 5 – Fire Fighting Measures

### 5.1 Suitable extinguishing media

Use carbon dioxide, dry chemical powder, or appropriate foam. Do not use a heavy water stream.

### 5.2 Special hazards arising from the substance or mixture

None known

### 5.3 Advice for firefighters

Use water spray or fog for cooling exposed containers.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## Section 6 – Accidental Release Measures

### 6.1 Personal precautions

#### General measures

Wear appropriate personal protective equipment, including but not limited to protective clothing, safety glasses and protective gloves.

#### For non-emergency personnel

Evacuate unnecessary personnel

#### For emergency responders

Equip cleanup team with proper protection and ventilate area

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent any reagents from entering drains and other release to the environment.

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**6.3 Methods and materials for containment and cleaning up**

Wipe up liquid spills with absorbent paper. For solid spills, sweep up without raising dust. Once pick up is complete wash site with detergent and water. Decontaminate with a suitable disinfectant solution and keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

See sections 8 and 13.

**Section 7 – Handling and Storage****7.1 Precautions for safe handling**

All animal sourced material has been obtained from animals certified as healthy and free from disease. However, all potentially biohazardous components should be considered as potentially infectious. Level II containment should be applied.

Do not eat, drink, or smoke in the laboratory. Do not pipette by mouth. Avoid inhalation. Avoid skin and eye contact. Wear appropriate protective clothing as described in subsection 8.2. Avoid the use of needles or other sharp implements. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Avoid release into drains; in case of accidental spillage, refer to section 6.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in original container and keep containers tightly closed when not in use. Store in a dry place in the box supplied at a temperature between +2 and +8°C.

**7.3 Specific end use(s)**

TECO® Fast Fungus (1-3)-β-D-Glucan Lateral Flow Assay is intended for professional use only and to be used solely for the purpose as specified in subsection 1.2. Refer to kit instructions for details.

**Section 8 – Exposure Controls and Personal Protection****8.1 Control parameters**

No occupational exposure limits exist for any kit components. However, the following limits apply to component ingredients: Potassium hydroxide (see subsection 3.2 for components containing these substances):

Potassium hydroxide: CAS 1310-58-3		
EU	Local name	Potassium hydroxide
EU	WEL STEL (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Ireland	Local name	Potassium hydroxide
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
United Kingdom	Local name	Potassium hydroxide
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>

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**8.2 Exposure controls**

The following controls should be followed as appropriate to the situation and the quantities handled.

**Hand protection**

Wear suitable gloves (nitrile rubber). The exact break through time has to be provided by the manufacturer of the gloves and has to be observed.

**Hygiene measures**

General laboratory practice (see section 7).

**Respiratory protection**

Not required

**Eye protection**

Not required

**Skin and body protection**

Not required

**Other equipment**

Eye bath and safety shower

**Section 9 – Physical and Chemical Properties****9.1 Information on basic physical and chemical properties**

Kit component	Appearance	Odor	pH	Solubility in Water
Test Cassette	White cassette	None	N/A	Not soluble
Sample Treatment Solution A	Colourless liquid	None	~13.0	Soluble
Sample Treatment Solution B	Colourless liquid	None	~7.0	Soluble
Controls	Colourless liquids	None	~7.2	Soluble

There is no information available for the following categories: odor threshold, melting/freezing point, initial boiling point/boiling range, flash point, evaporation rate, flammability (solid, gas), upper/lower flammability or explosive limits, vapor pressure, vapor density, relative density, partition coefficient, auto ignition temperature decomposition temperature, viscosity, explosive properties or oxidizing properties.

**9.2 Other safety information**

All liquid components are miscible with water in all proportions.

**Section 10 – Stability and Reactivity****10.1 Reactivity**

No dangerous reactions known under normal conditions or use.

**10.2 Chemical stability**

All components have been found stable for stated shelf life when stored under the conditions as recommended in section 7.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known for kit components although, hazardous reactions occur for the following substances listed in subsection 3.2:

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Ingredient	Hazardous Reaction
Potassium hydroxide	Contact with water, acids, flammable liquids, and organic halogen compounds, especially trichloroethylene, may cause fire or explosion. Contact with nitromethane and other similar nitro compounds cause formation of shock sensitive salts. Contact with metals such as aluminum, tin and zinc could cause formation of flammable hydrogen gas.

**10.3 Conditions to avoid**

No conditions to avoid known

**10.4 Incompatible materials**

Different metals

**10.5 Hazardous decomposition products**

No decomposition products are formed if kit is stored and used under the specified storage and handling conditions.

**Section 11 – Toxicological Information****11.1 Information on toxicological effects****Treatment Solution**

KOH: CAS no 1310-58-3 toxicological information

- LD50 oral rat LD50: 273 mg/kg
- Investigated as a mutagen
- Skin Irritation Data (std Draize, 50 mg/24 H): Human, Severe; Rabbit, Severe
- Eye Irritation Data (Rabbit, non-std test, 1 mg/24 H, rinse): Moderate

**11.2 Route of exposure**

Ingestion:	Harmful if swallowed
Skin contact	Causes severe skin burns Causes skin irritation
Eye contact	Causes serious eye irritation Causes eye damage

**Section 12 – Ecological Information****12.1 Toxicity**

No information available.

**12.2 Persistence and degradability**

No additional information available.

**12.3 Bio accumulative potential**

No additional information available.

**12.4 Mobility in soil**

No additional information available.

**12.5 Results of PBT and vPvB assessment**

No additional information available.



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#### 12.6 Other adverse effects

No additional information available. It is, however, recommended that reagents do not enter drains in large quantities.

## Section 13 – Disposal Considerations

#### 13.1 Waste treatment methods

Waste residues: human origin wastes must be disposed of in conformity with existing local regulations.

Soiled packaging: Dispose of in accordance with existing regulations. Contaminated containers must be treated the same way as the respective chemicals. Waste material packaging code (2001/118/EC): 15 01 10 (packaging containing of or contaminated by dangerous substances).

## Section 14 – Transportation Information

This product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Transport of this product can be carried out at ambient temperature but in the event of delays store at 2 – 8°C with all reagents contained within the packaging provided.

#### 14.1 UN number

Not applicable.

#### 14.2 UN proper shipping name

Not applicable.

#### 14.3 Transport hazard class(es)

Not applicable.

#### 14.4 Packing group

Not applicable.

#### 14.5 Environmental hazards

Not applicable.

#### 14.6 Special precautions for user

See sections 6 to 8.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Not applicable.

## Section 15 – Regulatory Information

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

This MSDS complies with regulation (EC) No. 2020/878

#### 15.2 Chemical safety assessment

No chemical safety assessment has been carried out for the substances of the mixture by the supplier.

## Section 16 – Other Information

#### General

This MSDS has been compiled in accordance with Commission Regulation (EU) No. 2020/878.



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**Full text of H and EUH statements**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
EUH210	Safety data sheet available on request

**Disclaimer**

The above information is believed to be correct but does not purport to be all-inclusive and is provided for guidance only. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Dynamiker Biotechnology Co. Ltd. shall not be held liable for any damage or injury resulting from handling or from contact with the above product and assumes no responsibility to the accuracy or completeness of the data contained herein. It is the responsibility of the purchaser to ensure that laboratory workers who use this product are aware of its hazards and take all necessary precautions to prevent contact, ingestion, inhalation, or any other mode of exposure.