

## Safety Data Sheet (SDS)

This product is a chemical substance and is intended to be used by persons having chemical knowledge and skill, at their own discretion and risk.

Revision Date: Nov. 30, 2021

### Section1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifier

Product Name: Glycolysis/OXPHOS Assay Kit  
Product Code: G270  
CAS Number: -  
EC Number: -

#### 1.2 Details of the supplier of the safety data sheet

Company: Dojindo Laboratories  
Address: Tabaru 2025-5 Mashiki-machi, Kamimashiki-gun, Kumamoto 861-2202, Japan  
Telephone: +81-96-286-1515  
Fax: +81-96-286-1525  
Emergency phone number : +81-96-286-1515

#### 1.3 Product use

For research use only.

### Section2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008.[EU-GHS/CLP]  
Acute toxicity, Category 4 (Oral)  
Skin corrosion/irritation, Category 1A  
Skin corrosion/irritation, Category 1B  
Skin corrosion/irritation, Category 1C  
Skin corrosion/irritation, Category 2  
Specific target organ toxicity – single exposure, Category 3

#### 2.2 Label elements

Labeling according Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Pictogram:



Signal word: Danger

Hazard statement(s):

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H335 May cause respiratory irritation.

Precautionary statement(s):

P260 Do not breathe dust/fume/gas/mist/ vapours/spray.  
P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.  
P264 Wash /hands/face/forearms/clothing thoroughly after handling.

P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/ face protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/ international regulations.

### 2.3 Other hazards

None known.

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## Section3. COMPOSITION/INFORMATION ON INGREDIENTS

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3.1	Product name:	Glycolysis/OXPHOS Assay Kit	
	Hazardous Component	Dye Mixture	H314
		Luciferase Solution	H335
		ATP Assay Buffer	H315, H335
		Oligomycin	H302

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## Section4. FIRST AID MEASURES

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### 4.1 Description of first aid measures

If inhaled:	If breathed in, move into fresh air. Seek medical advice if discomfort occurs. If not breathing, give artificial respiration. Call a physician.
If swallowed:	Do not induce vomiting. Wash out mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.
In case of skin contact:	Wash off with plenty of water. Remove contaminated clothing and launder before reuse.
In case of eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.

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

No information available.

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

No information available.

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### Section5. FIRE-FIGHTING MEASURES

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#### 5.1 Extinguishing media

Use extinguishing media appropriate for the surrounding fire.

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

May emit toxic fumes under fire conditions.

#### 5.3 Special protective equipment for firefighters

Wear self-contained breathing apparatus and full protective clothing if necessary.

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### Section6. ACCIDENTAL RELEASE MEASURES

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#### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Avoid contact with skin and clothing.

#### 6.2 Environmental precautions

Prevent further leakage. Prevent contamination of drains with product.

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

Pick up and collect product in suitable container for disposal.

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### Section7. HANDLING AND STORAGE

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#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Wear appropriate protective personal equipment. Use only with adequate ventilation.

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

Keep tightly closed. Protect from light.

Store in a cool (0-5°C), dark and dry place. Do not freeze.

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### Section8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

##### Engineering measures

Ensure adequate ventilation, especially in confined areas.

##### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Wash hands, forearms and face after handling.

##### Personal protective equipment

##### Eye/face protection:

Wear safety glasses with side-shields conforming to European Standard EN166.

##### Hand protection:

Wear protective gloves conforming to EU Directive 89/686/EEC and European Standard EN374. Gloves must be inspected prior to use. Avoid skin contact with product when remove gloves. Dispose of contaminated gloves safely after use.

##### Skin and body protection:

Wear laboratory coat or impervious clothing. Choose appropriate body protection according to the amount and concentration of the substance at the work place.

##### Respiratory protection:

Wear suitable respiratory equipment in case of inadequate ventilation.

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### Section9. PHYSICAL AND CHEMICAL PROPERTIES

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#### Information on basic physical and chemical properties

##### a) Appearance:

Dye Mixture	Lyophilized form
Lactate Standard	Colorless liquid
LDH Solution	White suspension
Lactate Assay Buffer	Colorless liquid
Reconstitution Buffer	Colorless liquid
Substrate	Lyophilized form
Luciferase Solution	Colorless liquid
ATP Assay Buffer	Colorless liquid
Oligomycin	-

2-DG	Colorless to pale yellow liquid
b) Odor:	
Dye Mixture	Odorless
Lactate Standard	Odorless
LDH Solution	Odorless
Lactate Assay Buffer	Odorless
Reconstitution Buffer	Odorless
Substrate	Odorless
Luciferase Solution	Odorless
ATP Assay Buffer	Odorless
Oligomycin	Odorless
2-DG	Odorless
c) Odor Threshold:	No data available
d) pH:	
Lactate Assay Buffer	8.4 - 8.6 (25°C)
ATP Assay Buffer	7.6 - 8.0 (25°C)
e) Melting point/freezing point:	No data available
f) Initial boiling point and boiling range:	No data available
g) Flash point:	No data available
h) Evaporation rate:	No data available
i) Flammability (solid, gas):	No data available
j) Upper / lower flammability or explosive limits:	No data available
k) Vapor pressure:	No data available
l) Vapor density:	No data available
m) Relative density:	No data available
n) Solubility(ies):	No data available
o) Partition coefficient: n-octanol / water:	No data available
p) Auto-ignition temperature:	No data available
q) Decomposition temperature:	No data available
r) Viscosity:	No data available
s) Explosive properties:	No data available
t) Oxidizing properties:	No data available

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## Section 10. STABILITY AND REACTIVITY

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### Stability and reactivity

Reactivity:	Stable
Chemical stability:	Stable at a cool (0-5°C), dark and dry place. Do not freeze.
Possibility of hazardous reactions:	No data available
Conditions to avoid:	Heat, sunlight, high temperature
Incompatible materials:	Strong oxidizing agents, strong acids and bases
Hazardous decomposition products:	No data available

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## Section 11. TOXICOLOGICAL INFORMATION

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### 11.1 Information on toxicological effects

a) Acute toxicity:	No data available
b) Skin corrosion / irritation:	No data available
c) Serious eye damage/eye irritation:	No data available
d) Carcinogenicity:	

No component of this product present at levels greater than or equal to 0.1% is identified as a possible, probable or confirmed human carcinogen by IARC.

e) Reproductive toxicity:	No data available
f) STOT - SE:	No data available
g) STOT - RE:	No data available
h) Aspiration hazard:	No data available

### 11.2 Potential health effects

Ingestion:	May be harmful if swallowed.
Inhalation:	May be harmful if inhaled. Causes respiratory tract irritation.
Skin:	May be harmful if absorbed through skin. Causes skin irritation.
Eyes:	Causes serious eye irritation.

### 11.3 Additional Information

No additional information is available

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## Section 12. ECOLOGICAL INFORMATION

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- 12.1 Ecotoxicity**  
No data available
- 12.2 Persistence and degradability**  
No data available
- 12.3 Bioaccumulative potential**  
No data available
- 12.4 Mobility in soil**  
No data available
- 12.5 Results of PBT and vPvB assessment**  
No data available

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## Section 13. DISPOSAL CONSIDERATIONS

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### Waste treatment methods

#### Product

Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with local regulations.

#### Contaminated packaging

Dispose of as unused product. Do not reuse empty containers.

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## Section 14. TRANSPORT INFORMATION

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### 14.1 UN number, Transport hazard class(es) and Packaging group

	UN number	Transport hazard class(es)	Packaging group
ADR/RID:	-	-	-
IMDG:	-	-	-
IATA:	-	-	-

### 14.2 UN proper shipping name

ADR/RID:	-
IMDG:	-
IATA:	Not dangerous goods

### 14.3 Environmental hazards

ADR/RID:	No
IMDG:	No
IATA:	No

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## Section 15. REGULATORY INFORMATION

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 [REACH], as amended by Commission Regulation (EU) No 453/2010.

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

No information available

### 15.2 Chemical Safety Assessment

No information available

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## Section 16. OTHER INFORMATION

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### Key to abbreviations and acronyms

STOT-SE:	Specific Target Organ Toxicity - Single Exposure
STOT-RE:	Specific Target Organ Toxicity - Repeated Exposure
PBT:	Persistent Bioaccumulative and Toxic
vPvB:	very Persistent very Bioaccumulative and toxic
ADR:	European Agreement concerning the international carriage of Dangerous goods by Road
CAS:	Chemical Abstracts Service
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
IMDG:	International Maritime code for Dangerous Goods
REACH:	Registration, Evaluation, Authorization and restriction of Chemicals
RID:	Regulations concerning the International transport of Dangerous goods by rail

This product is a chemical substance and is intended to be used by persons having chemical knowledge and skill at their own discretion and risk. This SDS was prepared with our best knowledge based on the information obtained. However, it does not provide any warranty on the data and the assessment of hazards and toxicity information be covered. For use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, region and country where the product be used.

In case you use the information on SDS for important decision, we strongly recommend you to confirm the source of information and the data with your own investigation. Please be noted that the physicochemical data and contents indicated in this SDS are not guaranteed values, only a guide.

The cautions stated are for normal handling only. Additional care may be required for any special handling. The data and/or information used on this SDS may be updated by new knowledge and/or amendments of the conventional theory. Therefore, please check the most updated version of SDS which is available at [www.dojindo.com](http://www.dojindo.com).