

# SAFETY DATA SHEET

Cat# BN00581 GenieProbe LDH-Cytotoxicity Fluorometric Assay Kit

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** LDH-Cytotoxicity Fluorometric Assay Kit

**PRODUCT CODES:** Cat# BN00581

**MANUFACTURER:** Assay Genie (brand of Reagent Genie Ltd.)

**ADDRESS:** G1 The Steelworks, Foley Street, Dublin 1

**EMERGENCY PHONE:** +353 1 8879802

## SECTION 2: HAZARDS IDENTIFICATION

Component	Description	Volume	Safety Information
LDH Assay Buffer	Proprietary Buffer (contains Proprietary Substrate)	50 ml	See below
LDH Substrate Mix	Lyophilized	1 vial	No hazards
GenieProbe	Lyophilized	2 ml	No hazards
Cell Lysis Solution	Liquid (contains Triton X-100)	5 ml	See below
LDH Positive Control	Liquid	20 µl	No hazards

### Triton X-100:

#### Emergency Overview

**OSHA Hazards:** Irritant, Harmful by ingestion

**GHS Classification:** Serious eye damage (Category 1)  
Skin irritation (Category 3)  
Acute aquatic toxicity (Category 3)  
Chronic aquatic toxicity (Category 3)

**GHS Label elements, including precautionary statements**

**Pictogram:**



**Signal word:** Warning

**Hazard statement(s):** H302: Harmful if swallowed  
H316 Causes mild skin irritation.

**Precautionary statement(s):** P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.  
P264 Wash hands thoroughly after handling.  
P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant.

#### **HMIS Classification**

**Health hazard:** 2

**Flammability:** 1

**Physical hazards:** 0

#### **NFPA Rating**

**Health Hazard:** 2

**Fire:** 1

**Reactivity Hazard:** 0

#### **Potential Health Effects**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin:** Harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Ingestion:** Harmful if swallowed.

### PROPRIETARY SUBSTRATE:

#### Emergency Overview

**OSHA Hazards:** Irritant

# SAFETY DATA SHEET

Cat# BN00581 GenieProbe LDH-Cytotoxicity Fluorometric Assay Kit

GHS Classification:

Serious eye damage (Category 1)  
Skin irritation (Category 3)  
Specific target organ toxicity – single exposure (Category 3)

GHS Label elements, including precautionary statements

Pictogram:



Signal word: Warning

Hazard statement(s): H316: Causes mild skin irritation  
H319: Causes serious eye irritation.

Precautionary statement(s):

P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/ eye protection/ face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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.

P321 Specific treatment (see supplemental first aid instructions on this label).

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

HMIS Classification

Health hazard: 2

Flammability: 1

Physical hazards: 0

NFPA Rating

Health Hazard: 2

Fire: 1

Reactivity Hazard: 0

Potential Health Effects

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin:** Harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Ingestion:** Harmful if swallowed.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	EC-No.	Molecular Weight	Chemical Formula
Triton X-100	9002-93-1	--	--	--
PROPRIETARY SUBSTRATE	--	--	--	--

## SECTION 4: FIRST AID MEASURES

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## SECTION 5: FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products:** Hazardous decomposition products formed under fire conditions— see section 10.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions:** Do not let product enter drains.

**Methods for cleaning up:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

# SAFETY DATA SHEET

Cat# BN00581 GenieProbe LDH-Cytotoxicity Fluorometric Assay Kit

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

Avoid inhalation of vapor or mist. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Triton X-100, PROPRIETARY SUBSTRATE:

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Triton X-100	PROPRIETARY SUBSTRATE
Appearance:	Liquid	Liquid
pH:	9.7	No data available
Water Solubility:	Soluble	No data available
Other Solubility:	No data available	No data available
Boiling Point (°C):	>200 °C (>392 °F)	No data available
Melting Point (°C):	6 °C (43 °F)	No data available
Flash Point (°C):	251 °C (484 °F) – closed cup	No data available
Ignition Temperature (°C):	No data available	No data available
Density:	1.070 g/ml	No data available

## SECTION 10: STABILITY AND REACTIVITY

Property	Triton X-100	PROPRIETARY SUBSTRATE
Chemical stability:	Stable under recommended storage conditions	
Conditions to avoid:	No data available	No data available
Materials to avoid:	Strong oxidizing agents, strong acids, strong bases	Strong oxidizing agents
Hazardous decomposition products:	Carbon oxides	No data available

## SECTION 11: TOXICOLOGICAL INFORMATION

### Triton X-100:

Acute toxicity: no data available

Skin corrosion/irritation: no data available

# SAFETY DATA SHEET

## Cat# BN00581 GenieProbe LDH-Cytotoxicity Fluorometric Assay Kit

**Serious eye damage/eye irritation:** no data available

**Respiratory or skin sensitization:** no data available

**Germ cell mutagenicity:** no data available

### **Carcinogenicity:**

- IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** no data available

**Teratogenicity:** no data available

**Specific target organ toxicity – single exposure (GHS):** no data available

**Specific target organ toxicity – repeated exposure (GHS):** no data available

**Aspiration hazard:** no data available

### **Potential Health Effects**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin:** Harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Ingestion:** Harmful if swallowed.

**Signs and Symptoms of Exposure:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects:** no data available

**Additional information:** RTECS: not available

---

## SECTION 12: ECOLOGICAL INFORMATION

### **Triton X-100:**

**Persistence and degradability:** no data available

**Toxicity:** no data available

**Bioaccumulative potential:** no data available

**Mobility in soil:** no data available

**PBT and vPvB assessment:** no data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

### **PROPRIETARY SUBSTRATE:**

**Persistence and degradability:** no data available

**Toxicity:** no data available

**Bioaccumulative potential:** no data available

**Mobility in soil:** no data available

**PBT and vPvB assessment:** no data available

**Other adverse effects:** no data available

---

## SECTION 13: DISPOSAL CONSIDERATIONS

**Product:** Observe all federal, state, and local environmental regulations.

**Contaminated packaging:** Dispose of as unused product.

---

## SECTION 14: TRANSPORT INFORMATION

### **Triton X-100, PROPRIETARY SUBSTRATE:**

**DOT (US):** Not dangerous goods.

**IMDG:** Not dangerous goods.

**IATA:** Not dangerous goods.

---

## SECTION 15: REGULATORY INFORMATION

**SARA 302 Components:** SARA 302: No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title II, Section 313.

**SARA 311/312 Hazards:** Triton X-100, PROPRIETARY SUBSTRATE: Acute Health Hazard

**Massachusetts Right To Know Components:** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components:** Triton X-100, CAS-No. 9002-93-1

PROPRIETARY SUBSTRATE, CAS-No. --

# SAFETY DATA SHEET

## Cat# BN00581 GenieProbe LDH-Cytotoxicity Fluorometric Assay Kit

New Jersey Right To Know Components: Triton X-100, CAS-No. 9002-93-1

PROPRIETARY SUBSTRATE, CAS-No. --

California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

### EU regulations:

Component	Risk Phrases	Safety Phrases
Triton X-100	R22, R52/53	S22, S36/37/39, S45
PROPRIETARY SUBSTRATE	--	--

---

### SECTION 16: OTHER INFORMATION

---

#### DISCLAIMER:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. 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. Assay Genie shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.