

## Safety Data Sheet

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Catalog Number: STA-390  
 Product Name: Total Cholesterol Assay Kit  
 Recommended Use: Laboratory Research Reagents

**MANUFACTURER:**

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### SECTION 2. HAZARDS IDENTIFICATION

Cholesterol Standard (Part No. 239001): One 50 µL vial of a 10 mM cholesterol solution in ethanol

**Classification:**

Flammable liquids, Category 2 (H225)  
 Eye irritation, Category 2A (H319)

<b>Pictogram</b>	
<b>Signal Word</b>	Danger
<b>Hazard Statements:</b> Highly flammable liquid and vapour (H225), Causes serious eye irritation (H319)	
<b>Precautionary Statements:</b> Keep away from heat/sparks/open flames/hot surfaces. No smoking (P210), Keep container tightly closed (P233), Ground/bond container and receiving equipment (P240), Use explosion-proof electrical/ventilating/lighting/equipment (P241), Use only non-sparking tools (P242), Take precautionary measures against static discharge (P243), Wash skin thoroughly after handling (P264), Wear protective gloves/protective clothing/eye protection/face protection (P280), If on skin or hair: Take off immediately all contaminated clothing (P303 + P361 + P353), IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305 + P351 + P338), If eye irritation persists: get medical attention (P337 + P313), In case of fire: use dry sand, dry chemical or alcohol-resistant foam for extinction (P370 + P378),	


Store in a well-ventilated place and keep cool (P403 + P235), Dispose of contents/container to an approved waste disposal plant (P501).

Fluorescence Probe (Part No. 239005): One 300 µL vial in DMSO

**Classification:**

Flammable liquids, Category 4 (H227)

Acute toxicity, Oral, Category 4 (H302)

<b>Pictogram</b>	
<b>Signal Word</b>	Warning
<b>Hazard Statements:</b> Combustible liquid (H227), Harmful if swallowed (H302).	
<b>Precautionary Statements:</b> Keep away from heat/sparks/open flames/hot surfaces. No smoking (P210), Wash skin thoroughly after handling (P264), Do not eat, drink, or smoke when using this product (P270), Wear protective gloves/protective clothing/eye protection/face protection (P280), IF SWALLOWED: call a POISON CENTER if you feel unwell. Rinse mouth (P301 + P312 + P330), In case of fire: use dry sand, dry chemical or alcohol-resistant foam for extinction (P370 + P378), Store in a well-ventilated place and keep cool (P403 + P235), Dispose of contents/container to an approved waste disposal plant (P501).	

Cholesterol Esterase (Part No. 239003): One 20 µL vial

Cholesterol Oxidase (Part No. 239004): One 200 µL vial


**Classification:**

Acute toxicity, Oral, Category 4 (H302)

Eye irritation, Category 2A (H319)

Acute aquatic toxicity, Category 2 (H401)

Chronic aquatic toxicity, Category 2 (H411)

<b>Pictogram</b>	
<b>Signal Word</b>	Warning
<b>Hazard Statements:</b> Harmful if swallowed (H302), Causes serious eye irritation (H319), Toxic to aquatic life with long lasting effects (H411).	
<b>Precautionary Statements:</b> Wash skin thoroughly after handling (P264), Do not eat, drink, or smoke when using this product (P270), Avoid release to the environment (P273), Wear protective gloves/protective clothing/eye protection/face protection (P280), IF SWALLOWED: call a POISON CENTER if you feel unwell. Rinse mouth (P301 + P312 + P330), IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305 + P351 + P338), If eye irritation persists: get medical advice/attention (P337 + P313), Collect spillage (P391), Dispose of contents/container to an approved waste disposal plant (P501).	

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Cholesterol Standard (Part No. 239001): One 50  $\mu$ L vial of a 10 mM cholesterol solution in ethanol

CHEMICAL NAME	CONCENTRATION	CAS #
Ethanol	10 mM	64-17-5

Fluorescence Probe (Part No. 239005): One 300  $\mu$ L vial in DMSO

CHEMICAL NAME	CONCENTRATION	CAS #
Dimethyl Sulfoxide	100%	67-68-5
Proprietary Compound A	10-15 mM	

Cholesterol Esterase (Part No. 239003): One 20  $\mu$ L vial

Cholesterol Oxidase (Part No. 239004): One 200  $\mu$ L vial

CHEMICAL NAME	CONCENTRATION	CAS #
Triton X-100	0.1%	9002-93-1

#### **SECTION 4. FIRST-AID MEASURES**

- IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
- IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN.
- IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical or CO<sub>2</sub>
- Special protective equipment: Self-contained breathing apparatus

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Evacuate area
- Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.
- Absorb with sand or vermiculite, sweep up, place in a bag and hold for waste disposal.
- Avoid raising dust.
- Ventilate area and wash spill site after material pickup is complete.

#### **SECTION 7. SAFETY HANDLING AND STORAGE**

- Should be handled by trained personnel observing good laboratory practices.
- Avoid breathing vapor.
- Avoid skin contact or swallowing.
- May cause allergic reaction in sensitized individuals.
- Store in properly labeled containers at temperature on label

#### **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Engineering measures: Handle in accordance with good industrial hygiene and safety practices. Wash hands immediately after handling the product.
- Personal protective equipment: Face shield or safety glasses, gloves, protective clothing, suitable respiratory equipment in cases of inadequate ventilation.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Form: liquid
- Odor: no data available
- pH: no data available
- Boiling point / range: no data available
- Melting point / range: no data available
- Flash point: no data available

- Evaporation rate: no data available
- Vapor pressure: no data available
- Vapor density: no data available
- Relative density: no data available
- Water solubility: no data available
- Autoignition temperature: no data available
- Decomposition temperature: no data available
- Viscosity: no data available
- Explosive properties: no data available
- Oxidizing properties: no data available

#### **SECTION 10. STABILITY AND REACTIVITY**

- Stability: no data available
- Reactivity: no data available
- Conditions to avoid: no data available
- Incompatible materials: no data available
- Decomposition products: no data available

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

- Acute toxicity
  - Ethanol: LD50 Oral 7.060 mg/kg (rat), LC50 Inhalation 20000 ppm 10h (rat)
  - Triton X-100: LD50 oral 1.800 mg/kg (rat), LD50 dermal 8.000 mg/kg (rabbit)
  - Dimethyl Sulfoxide:
    - LD50 Oral - rat - 14.500 mg/kg
    - LC50 Inhalation - rat - 4 h - 40250 ppm
    - LD50 Dermal - rabbit - > 5.000 mg/kg
  - All other hazardous components: no data available
- Skin corrosion/irritation
  - Ethanol: Irritating to skin 24h (rabbit)
  - Triton X-100: no data available
  - All other hazardous components: no data available
- Serious eye damage/irritation
  - Ethanol: Mild eye irritation 24h Draize test (rabbit)
  - Triton X-100: Moderate eye irritation-24 h (rabbit)
  - All other hazardous components: no data available
- Respiratory or skin sensitization: no data available
  - Ethanol: no data available
  - Triton X-100: no data available
  - All other hazardous components: no data available
- Germ cell mutagenicity: no data available
- Carcinogenicity: no data available
- Reproductive toxicity: no data available

## SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity
  - Ethanol: no data available
  - Triton X-100: Toxicity to Daphnia and other aquatic invertebrates- EC50 26 mg/L-48h (Daphnia)
  - Dimethyl Sulfoxide:
    - Toxicity to fish: LC50 - Pimephales promelas (fathead minnow) - 34.000 mg/l - 96 h, LC50 - Oncorhynchus mykiss (rainbow trout) - 35.000 mg/l - 96 h
    - Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia pulex (Water flea) - 27.500 mg/l
    - Toxicity to algae: EC50 - Lepomis macrochirus (Bluegill)- > 400.000 mg/l - 96h
  - Proprietary Compound A: no data available
- Mobility: no data available
- Biodegradation
  - EDTA: no data available
  - Triton X-100: not readily biodegradable
  - All other hazardous components: no data available
- Bioaccumulation:
  - EDTA: Lepomis macrochirus 80µg/L 28d, bioconcentration factor (BCF): 1,8.
  - Triton X-100: no data available
  - All other hazardous components: no data available

## SECTION 13. DISPOSAL CONSIDERATIONS

For small quantities: Cautiously add to a large stirred excess of water. Adjust the pH to neutral. Flush the aqueous solutions down the drain with plenty of water.

## SECTION 14. TRANSPORT INFORMATION - IATA

- Hazard Class: Not Hazardous

## SECTION 15. REGULATORY INFORMATION

- Safety, health and environmental regulations/legislation specific for the substance or mixture: no data available
- Chemical safety assessment: no data available

## SECTION 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide for experienced personnel. Cell Biolabs, Inc. shall not be held liable for any damage resulting from the handling or from contact with the above product(s).

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