

Material Safety Data Sheet

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

Catalog Number: CBA-240
Product Name: CytoSelect™ Cell Viability and Cytotoxicity Assay Kit

MANUFACTURER:

Cell Biolabs, Inc.
7758 Arjons Drive
San Diego, CA 92126

EMERGENCY CONTACT:

+1 858 271 6500
info@cellbiolabs.com

SECTION 2. HAZARDS IDENTIFICATION

Calcein AM (500X) (Part No. 108002): One vial – 50 µL in DMSO

CHEMICAL NAME	CONCENTRATION	CAS #
DMSO	100%	67-68-5
Classification according to Regulation (EC) 1272/2008: Not a hazardous substance or mixture.		
Classification according to Directive 67/548/EEC: Not dangerous.		

Ethidium Homodimer (EthD-1) (500X) (Part No. 108003): One vial – 50 µL

CHEMICAL NAME	CONCENTRATION	CAS #
Ethidium Homodimer	2 mM	61926-22-5
Classification according to Regulation (EC) 1272/2008: In contact with water releases flammable gases (H261), Causes severe skin burns and eye damage (H314), Suspected of causing cancer (H351).		
Classification according to Directive 67/548/EEC: Reacts violently with water (R14), Causes burns (R34), Limited evidence of a carcinogenic effect (R40), In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26), Wear suitable protective clothing, gloves, and eye/face protection (S36/37/39), In case of accident or if you feel unwell, seek medical advice immediately (show label where possible) (S45).		

Detergent Solution (Part No. 108004): One bottle – 25.0 mL

CHEMICAL NAME	CONCENTRATION	CAS #
SDS	10%	151-21-3
<p>Classification according to Regulation (EC) 1272/2008: Harmful if swallowed (H302), Toxic in contact with skin (H311), Causes skin irritation (H315), Causes serious eye irritation (H319), May cause respiratory irritation (H335).</p>		
<p>Classification according to Directive 67/548/EEC: Highly flammable (R11), Harmful in contact with skin and if swallowed (R21/22), Irritating to eyes, respiratory system and skin (R36/37/38), In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26), Wear suitable protective clothing and gloves (S36/37).</p>		

Saponin (100X) (Part No. 124001): One vial – 100 µL

CHEMICAL NAME	CONCENTRATION	CAS #
Saponin	10%	8047-15-2
<p>Classification according to Regulation (EC) 1272/2008: Causes serious eye irritation (H319), May cause respiratory irritation (H335).</p>		
<p>Classification according to Directive 67/548/EEC: Irritating to eyes and respiratory system (R36/37), In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26), Wear suitable gloves and eye/face protection (S37/39).</p>		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Kit Components

1. Calcein AM (500X) (Part No. 108002): One vial – 50 µL in DMSO.
2. Ethidium Homodimer (EthD-1) (500X) (Part No. 108003): One vial – 50 µL.
3. Detergent Solution (Part No. 108004): One bottle – 25.0 mL.
4. MTT Solution (Part No. 113502): Three tubes – 1.0 mL each – Non Hazardous
5. Saponin (100X) (Part No. 124001): One vial – 100 µL

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 CO₂
- 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
- Boiling point / range: no data available
- Melting point / range: no data available
- Flash point: no data available
- Autoignition temperature: no data available
- Water solubility: no data available
- Evaporation rate: 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
 - DMSO: LD50 Oral - rat - 14.500 mg/kg, LC50 Inhalation - rat - 4 h - 40250 ppm, LD50 Dermal - rabbit - > 5.000 mg/kg
 - SDS: LD50 Oral 1.288 mg/kg (rat); LC50 Inhalation >3.9 mg/m³ (rat); LD 50 Dermal 580 mg/kg (rabbit)
 - All other hazardous components: no data available
- Skin corrosion/irritation
 - SDS: Irritation (rabbit)
 - All other hazardous components: no data available
- Serious eye damage/irritation
 - SDS: Risk of serious damage (rabbit)
 - All other hazardous components: no data available
- Respiratory or skin sensitization:
 - SDS: May cause respiratory irritation
 - 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
 - DMSO: Toxicity to fish: LC50 34.000 mg/l - 96 h (Pimephales promelas), LC50 35.000 mg/l - 96 h (Oncorhynchus mykiss); Toxicity to daphnia and other aquatic invertebrates: EC50 27.500 mg/l (Daphnia pulex); Toxicity to algae: EC50 > 400.000 mg/l - 96h (Lepomis macrochirus)
 - SDS: LC50 3.6 mg/L in 96 hrs (rainbow trout); mortality NOEC 19.5 mg/L in 96 hrs (rainbow trout); mortality LOEC 4.6 mg/L in 8 days (fathead minnow); growth inhibition LOEC 2.68 mg/L in 6 days (algae)
 - All other hazardous components: no data available
- Mobility: no data available
- Biodegradation: no data available
- Bioaccumulation: 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: no data available
- Subsidiary Class: no data available
- Packing Group: no data available
- UN-No: no data available

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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