

Safety Data Sheet

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

Catalog Number: CBA-305
 Product Name: Total Protein – Murine Embryonic Stem Cell Line D3
 Recommended Use: Laboratory Research Reagents

MANUFACTURER:

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


EMERGENCY CONTACT:

+1 858 271 6500
 info@cellbiolabs.com

SECTION 2. HAZARDS IDENTIFICATION

Classification:

- Acute toxicity, Dermal, Category 4 (H312)
- Acute toxicity, Oral, Category 2 (H315)
- Eye irritation, Category 2 (H319)
- Acute toxicity, Inhalation, Category 4 (H332)
- Specific target organ toxicity (single exposure) - Respiratory system, Category 3 (H335)
- Acute aquatic toxicity, Category 3, H402
- Chronic aquatic toxicity, Category 3 (H412)

Pictogram	
Signal Word	Warning
Hazard Statements: Harmful if swallowed, in contact with skin or if inhaled (H302 + H312 + H332), Causes skin irritation (H315), Causes serious eye irritation (H319), May cause respiratory irritation (H335), Harmful to aquatic life with long lasting effects (H412).	
Precautionary Statements: Avoid breathing dust/fume/gas/mist/vapors/spray (P261), Wash skin thoroughly after handling (P264), Do not eat, drink, or smoke when using this product (P270), Use only outdoors or in a well-ventilated area (P271), 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 ON SKIN: gently wash with plenty of soap and water (P302 + P350), IF INHALED: remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER / doctor (P304 + P340), IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305 + P351 + P338), Call a POISON CENTER / doctor if you feel unwell (P312), If skin irritation occurs: get medical advice/attention (P332 + P313), If eye irritation persists: get medical advice/attention (P337 + P313), Take off contaminated clothing and wash before reuse (P362), Wash contaminated clothing before reuse (P363), Store in a well-ventilated place. Keep container tightly closed (P403 + P233), Store locked up (P405), Dispose of contents/container to an approved waste disposal plant (P501).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Protein lysate in NP-40 Solubilization Buffer (20 mM Tris, pH 7.5, 150 mM NaCl, 1 mM MgCl₂, 1% deoxycholate, 5 mM EDTA, 1% NP-40, 1 mM sodium orthovanadate, protease inhibitor cocktail)

CHEMICAL NAME	CONCENTRATION	CAS #
Tris	20 mM	77-86-1
Sodium Deoxycholate	1 %	302-95-4
EDTA	5 mM	60-00-4
Sodium Orthovanadate	1 mM	13721-39-6

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
- 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
 - Tris: LD50 Oral 5.900 mg/kg (rat)
 - Sodium Deoxycholate: no data available
 - EDTA: LD50 Oral 2.580 mg/kg (rat)
 - Sodium Orthovanadate: LD50 Oral 330 mg/kg (rat), Diarrhoea blood: hemorrhage
- Skin corrosion/irritation
 - EDTA: no skin irritation (rabbit)
 - All other hazardous components: no data available
- Serious eye damage/irritation
 - EDTA: eye irritation (rabbit)
 - All other hazardous components: no data available
- Respiratory or skin sensitization: no data available
- Germ cell mutagenicity: no data available
- Carcinogenicity: no data available
- Reproductive toxicity: no data available

SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity
 - Tris: no data available
 - Sodium Deoxycholate: Toxicity to fish: LC50 115 mg/l 48h (*Oryzias latipes*)
 - EDTA: Toxicity to fish: mortality NOEC 24 mg/L 96h (*Lepomis macrochirus*), LC50 34-62 mg/L 96h (*Lepomis macrochirus*); Toxicity to Daphnia and other aquatic invertebrates: EC50 113 mg/L 48h (*Daphnia magna*).
 - Sodium Orthovanadate: Toxicity to fish: LC50 16,5 mg/l 96h (*Oncorhynchus tshawytscha*).
- Mobility: no data available
- Biodegradation: no data available
- Bioaccumulation
 - EDTA: *Lepomis macrochirus* 80µg/L 28d, bioconcentration factor (BCF): 1,8
 - 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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