

Safety Data Sheet

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

Catalog Number: MET-5127
 Product Name: Aspartate Aminotransferase (AST) Assay Kit (Colorimetric)
 Recommended Use: Laboratory Research Reagents

MANUFACTURER:

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SECTION 2. HAZARDS IDENTIFICATION

AST Substrate Mix (Part No. 51272C): One 1.5 mL tube

Classification:


Serious eye damage, Category 1 (H318)

Pictogram	
Signal Word	Danger
Hazard Statements: Causes serious eye damage (H318)	
Precautionary Statements: Wear protective gloves/protective clothing/eye protection/face protection (P280), Continue rinsing (P305 + P351 + P338), Remove contact lenses, if applicable (P310). 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).	

AST Positive Control (Part No. 51274B): One 50 µL tube of 100U/mL enzyme

Classification:

Acute aquatic toxicity, Category 3 (H402)
 Chronic aquatic toxicity, Category 3 (H412)

Pictogram	
Signal Word	Warning
Hazard Statements: Harmful to aquatic life with long lasting effects (H412).	
Precautionary Statements: Avoid release to the environment (P273), Dispose of contents/container to an approved waste disposal plant (P501).	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

AST Substrate Mix (Part No. 51272C): One 1.5 mL tube

CHEMICAL NAME	CONCENTRATION	CAS #
Proprietary Compound A	20 mM	

AST Positive Control (Part No. 51274B): One 50 µL tube of 100U/mL enzyme

CHEMICAL NAME	CONCENTRATION	CAS #
Ammonium Sulfate	3M	7783-20-2

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

- Proprietary Compound A: LD50 Oral: 5,000-10,000 mg/kg (rat), LC50 Inhalation: No data available
- Ammonium Sulfate: Oral: 4,250 mg/kg (rat), LC50 Inhalation: No data available, LC50 Dermal: 2,000 mg/kg (rat)
- Skin corrosion/irritation
 - Proprietary Compound A: No skin irritation
 - Ammonium Sulfate: No skin irritation
- Serious eye damage/irritation
 - Proprietary Compound A: no data available
 - Ammonium Sulfate: No eye irritation
- Respiratory or skin sensitization
 - Proprietary Compound A: no data available
 - Ammonium Sulfate: No skin sensitization
- Germ cell mutagenicity: no data available
- Carcinogenicity: no data available
- Reproductive toxicity: no data available

SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity
 - Proprietary Compound A: no data available
 - Ammonium Sulfate: Toxicity to fish: 460 mg/L (Golden Orfe)
- Mobility: no data available
- Biodegradation: no data available
 - Proprietary Compound A: 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

- 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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