

SAFETY DATA SHEET

Section 1: Identification

Product Identifier: Fumarase Activity Assay Kit (Colorimetic) (#BA0105)

Relevant Identified Uses of Substance or Mixture and Uses Advised Against:

Recommended Use: For Research Use Only

Uses Advised against: No information

Company:

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Section 2: Hazard(s) Identification

GHS Classification

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Germ cell mutagenicity (Category 2), H341

Specific target organ toxicity (Category 3), Respiratory system, H335

GHS Label elements, including precautionary statements



Pictogram:

Signal word: Warning

Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

Precautionary statements

P273 Avoid release to the environment.

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

P302 + P352: If on skin: Wash with plenty of soap and water.

P304 + P340: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P312 Call a doctor/ physician if you feel unwell.

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

P337 + P313: If eye irritation persists: Get medical advice/ attention.

Section 3: Composition/ Information on Ingredients

Component Name	CAS Number
Assay Buffer: 10 mL liquid. — Contains 0.1-5% L-glutamate	CAS #: 142-47-2
Enzyme A: 120 µL liquid. — Non-hazardous	
Enzyme B: 120 µL liquid. — Non-hazardous	
Substrate: 600 µL liquid. — Non-hazardous	
NAD/MTT: 1mL liquid. — Contains 1-10% Thiazolyl Blue Tetrazolium Bromide	CAS #: 298-93-1
Calibrator: 1.5 mL liquid. — Non-hazardous	

Section 4: First-Aid Measures

Eye: Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.

Skin: Itching or burning of the skin. Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Get immediate medical attention. Wash contaminated clothing before reuse.

Inhalation: Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

Ingestion: Get immediate medical attention. Do not induce vomiting unless directed by medical personnel.

Section 5: Fire-Fighting Measures

Extinguishing media: water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special firefighting procedures: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosion hazards: emits toxic fumes under fire conditions.

Section 6: Accidental Release Measures

Keep unnecessary people away; isolate hazard area and deny entry.

Small spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal. Large spills: Dike far ahead of liquid spill for later disposal. Do not flush to sewer or waterways. Prevent release to the environment if possible.

Section 7: Handling and Storage

Keep receptacles tightly sealed and store according to the instructions in the assay protocol.

Section 8: Exposure Controls/Personal Protection

Follow standard laboratory safety procedures, including wearing chemical safety goggles, face shield, gloves, NIOSH approved respiratory protection and protective clothing. Wash and dry hands.

Section 9: Physical and Chemical Properties

Refer to Section 3. Composition/Information on Ingredients.

Section 10: Stability and Reactivity

Thermal Decomposition: no decomposition if used according to specifications.

Dangerous Products of Decomposition: nitrogen and sulfur oxides.

Dangerous Reactions: none.

Section 11: Toxicological Information

The toxicological effects of this product have not been thoroughly studied. We recommend handling all chemicals with caution.

L-Glutamate - LD50 Oral rat: 17.3 g/kg; Inhalation: no data available; LD50 Dermal rat: > 2,000 mg/kg; Skin corrosion/irritation rabbit: No skin irritation 4 h.

Thiazolyl Blue Tetrazolium Bromide (CAS#: 298-93-1) - Acute toxicity no data available; Inhalation: no data available; Dermal: no data available; no data available; Skin corrosion/irritation: no data available Serious eye damage/eye irritation; no data available.

Section 12: Ecological Information

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

Section 13: Disposal Considerations

Dispose in accordance with local, state or national regulations.

Section 14: Transport Information

DOT (US) - Not dangerous goods.

IMDG - Not dangerous goods.

IATA - Not dangerous goods.

Section 15: Regulatory Information

OSHA Hazards: Target Organ Effect, Combustible Liquid.

SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard.

Section 16: Other Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislation. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

Last reviewed: 07/2026

Disclaimer

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End Of MSDS