

Effective date: 01/10/2026	Hy-Labs Cat. No: TT146	MSDS FORMAT	
Doc. No: MSDS- TT146		MATERIAL SAFETY DATA SHEET	Replace Doc: NA

1- Product and Company Identification

Product Name	HY ENTEROTEST
Reference number	TT146
Identified uses	Prepared microbiological test medium in agar tube format for laboratory identification and biochemical characterization of enteric microorganisms. For in-vitro laboratory use only.
Manufacturer	Hy-Laboratories Ltd. Park Tamar, Rehovot, 76326, Israel Tel: 972-8-9366475 Fax: 972-8-9366474

2- HAZARDS IDENTIFICATION

GHS Classification (Regulation (EC) No 1272/2008 / GHS): The finished, prepared agar tube (a solid, water-based gel) is not classified as a hazardous mixture under GHS/CLP - all indicator/reagent raw materials are present at trace or heavily diluted concentrations, well below standard GHS mixture-classification cut-offs (see Section 3).

Label elements: No signal word, hazard pictogram, or hazard statement required for the finished product. The finished tube presents no corrosive hazard.

Other hazards: This assessment applies to the unused finished product. Some concentrated raw materials used in preparation, including sodium hydroxide, phenol red, ONPG and urea, may have additional hazards in concentrated forms.

Biological hazard: Once inoculated with a clinical or environmental isolate, tubes should be handled under standard microbiological biosafety practice appropriate to the organism being tested.

3- COMPOSITION/INFORMATION ON INGREDIENTS

This product is a solid (agar) combined biochemical identification medium in tubes, prepared from the following components. Concentrations are per liter of finished medium unless stated otherwise.

A) BASE NUTRIENT AND GELLING COMPONENTS

- 1) Tryptone (Peptone Bios D): 4.23 g/L. Not classified as hazardous.
- 2) Beef Extract: 4.4 g/L. Not classified as hazardous.
- 3) Meat Peptone: 5.4 g/L. Not classified as hazardous.
- 4) Yeast Extract: 1.94 g/L. Not classified as hazardous.
- 5) Agar, Bacteriological, European: 4.17 g/L. Gelling agent. Not classified as hazardous.
- 6) Bacteriological Peptone: 8.8 g/L. Not classified as hazardous.
- 7) Plant Propagation Agar: 7.17 g/L. Gelling agent. Not classified as hazardous.
- 8) Dextrose (Glucose); CAS No. 50-99-7: 0.57 g/L. Not classified as hazardous.

B) MINERAL/INDICATOR COMPONENTS (hydrogen sulfide reaction and tonicity)

- 9) Ferrous Sulfate Heptahydrate; CAS No. 7782-63-0: 342.86 mg/L. Classification (concentrate): generally low-hazard; some suppliers note mild skin/eye irritation potential as a concentrated powder.
- 10) Sodium Thiosulfate Pentahydrate, BP/ACS/AR 99.5%, CAS No. 10102-17-7: 0.34 g/L. Not classified as hazardous.
- 11) Sodium Chloride, EMPROVE; CAS No. 7647-14-5: 5.34 g/L. Not classified as hazardous.

C) ONPG SOLUTION (beta-galactosidase/lactose fermentation indicator) - added at 57.14 mL/L, prepared from (amounts per liter of ONPG stock solution):

- 12) Disodium Hydrogen Phosphate Dihydrate (Na₂HPO₄·2H₂O); CAS No. 10028-24-7: 28.476 g/L of stock. Not classified as hazardous.
- 13) Sodium Dihydrogen Phosphate Dihydrate (NaH₂PO₄·2H₂O); CAS No. 13472-35-0: 16.644 g/L of stock. Not

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classified as hazardous.

14) ONPG (2-Nitrophenyl-beta-D-galactopyranoside); CAS No. 369-07-3: 4 g/L of stock. Classification: generally low-hazard; some suppliers note mild skin/eye irritation potential as a concentrated powder.

D) UREA SOLUTION 50% (urease reaction indicator) - added at 5.14 mL/L, prepared from:

15) Urea CAS No. 57-13-6: 500 g/L of stock (50% w/v). Not classified as hazardous.

Contribution to finished tube (at 5.14 mL/L): Urea approx. 2.57 g/L.

E) PHENOL RED SOLUTION 0.2% (pH indicator) - added at 7.82 mL/L, prepared from:

16) Phenol Red; CAS No. 143-74-8: 2 g/L of stock (0.2% w/v). Classification (**concentrate/powder**): Warning - Skin Irrit. 2 (H315), STOT SE 3 (H335 - May cause respiratory irritation).

17) Sodium Hydroxide (NaOH), 1N solution; CAS No. 1310-73-2: 8 mL/L of stock, used to dissolve the phenol red.

Contribution to finished tube - a negligible residual amount, far below any level that could render the finished tube corrosive or irritant.

F) Water (purified/deionized) - solvent/diluent, balance to volume.

Overall: all components of this medium are common, low-hazard laboratory nutrients, salts, and biochemical indicators. All raw-material contributions in the finished tube are far below standard GHS generic concentration cut-offs for classification of the mixture.

4- First Aid Measures

Eye contact (finished product): Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.

Skin contact: Wash with plenty of water and soap. Remove contaminated clothing.

Inhalation: Not an expected route of exposure for the finished solid agar medium. Move to fresh air if irritation or discomfort occurs. Seek medical advice if symptoms persist.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical advice if discomfort occurs or a significant amount of the finished product is swallowed.

Note to physician: Treat symptomatically.

For inoculated tubes, inform medical personnel of possible biological exposure.

5- Fire Fighting Measures

The finished, prepared product is a solid agar medium and is not flammable or readily combustible under normal conditions.

Suitable extinguishing media: Use extinguishing media appropriate to the surrounding fire (water spray/fog, CO2, dry chemical, foam).

Unsuitable extinguishing media: None known.

Specific hazards: None known for the finished product. Burning packaging or decomposition may generate irritating fumes.

Special protective equipment for firefighters: Use self-contained breathing apparatus and full protective equipment for fires involving surrounding materials.

6- Accidental Release Measures

Personal precautions: Ensure adequate ventilation. Avoid contact with eyes, skin, and mucous membranes. Wear standard laboratory PPE (gloves, lab coat, eye protection).

Environmental precautions: Prevent spilled material from entering drains, waterways, or soil.

Methods for containment and cleanup: For the finished product, wearing appropriate PPE, collect broken tubes/spilled agar using a scoop or absorbent material and disinfect the area; Avoid direct contact with the medium, avoid generating aerosols. Dispose of waste as described in Section 13.

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Treat inoculated tubes and spills involving potentially infectious material as biohazardous and follow the facility's validated spill-response procedure			
7- Handling and Storage			
Handling: Handle the finished tubes using standard microbiological/good laboratory practice. Avoid contact with eyes, skin, and mucous membranes. Do not ingest. Wash hands after handling. Storage: Store prepared tubes tightly closed, in their original packaging, away from direct sunlight and sources of contamination, as indicated on the product label/certificate of analysis. Typically stored at 2-8°C (refrigerated) or as specified by the label until the labeled expiry date; avoid freezing and excessive heat. Protect from drying. Do not use if the medium shows signs of contamination, excessive drying, or discoloration inconsistent with expected appearance. Inoculated tubes must be stored and handled according to laboratory biosafety procedures.			
8- Exposure Controls, Personal Protection			
Occupational exposure limits: No specific occupational exposure limits (OEL/TLV) have been established for the finished product. Engineering controls: Handle the finished product in a well-ventilated area.. Personal protective equipment: Eye protection: Safety glasses for finished product handling; safety glasses/goggles where splashes are possible. Skin protection: Laboratory coat and disposable gloves for finished product handling; Respiratory protection: Not normally required for handling the finished solid tubes; Handle inoculated tubes in accordance with the organism-specific risk assessment and applicable containment procedures. Avoid generation of aerosols.			
9- Physical and Chemical Properties			
Appearance: Solid agar medium in tubes (slant or butt format); color varies from pale yellow to red/pink depending on pH and reactions occurring (phenol red indicator) Odor: Faint characteristic odor pH: Approx. 6.8 - 7.2 Melting/Softening point: Agar gel liquefies on heating to approx. 85-95°C; sets/gels below approx. 40°C Flammability: Not flammable (solid, aqueous gel) Solubility: Not applicable (solid gel matrix) Flash point, boiling point, vapour pressure, density: not applicable or not determined for the finished solid medium.			
10- Stability and Reactivity			
Chemical stability: The finished product is stable under normal conditions of storage until the labeled expiry date. The phenol red indicator may change color with pH drift or prolonged storage; this does not represent a safety hazard. Possibility of hazardous reactions: None known for the finished product under normal use. Conditions to avoid: Freezing, excessive heat, prolonged light exposure, and microbial contamination during storage of the finished product. Incompatible materials: No specific incompatible materials have been determined for the finished product Hazardous decomposition products: None expected under normal conditions of use and storage of the finished product.			
11- Toxicological Information			
Acute toxicity: The finished product is a low-hazard laboratory culture medium; all indicator/reagent raw material contributions are present at trace or diluted concentrations well below levels of acute toxicological concern. The unused product is not expected to present a significant toxicological hazard under normal laboratory handling			
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Individual raw materials and stock solutions may have hazards in concentrated form.
Skin/eye irritation, sensitization (finished product): Not expected to be significantly irritating or sensitizing at the concentrations present in the finished tube under normal end-user handling.
Avoid ingestion, eye contact and skin contact. Inoculated tubes may present biological hazards.

12- Ecological Information

Ecotoxicity: Not expected to be significantly harmful to aquatic organisms at the concentrations present in the finished tube; components are common culture-media nutrients, salts, and trace biochemical indicators.
Persistence and degradability: The organic components (peptones, extracts, agar, urea, glucose) are expected to be biodegradable.
Bioaccumulative potential: Not expected to bioaccumulate.
Other adverse effects: Avoid uncontrolled environmental release of the product and prevent release to drains or the environment. Dispose of used/inoculated media appropriately (see Section 13) to avoid release of cultured microorganisms into the environment.

13- Disposal Information

This product may contain or support the growth of microorganisms after use/inoculation and should be treated as biohazardous (biological) waste if inoculated with a clinical or environmental isolate.
Autoclave (or otherwise appropriately disinfect) used/inoculated tubes prior to disposal, in accordance with your institution's biosafety procedures and applicable local, national, and international regulations.
Unused/unopened finished product may be disposed of as general laboratory waste in accordance with local regulations.
Dispose of contents/container in accordance with applicable local, national, and international regulations.

14- Transport Information

Finished product: Not classified as a dangerous good for transport by road (ADR), rail (RID), sea (IMDG), or air (IATA/ICAO) when unused and unopened.
UN Number: Not applicable (finished product)
UN Proper Shipping Name: Not applicable (finished product)
Transport Hazard Class(es): Not applicable (finished product)
Packing Group: Not applicable (finished product)
Environmental hazards: No
Special precautions: If shipping inoculated tubes containing cultured microorganisms, applicable biological/infectious substance transport regulations (e.g., UN3373 Biological Substance, Category B, where relevant) may apply - assess based on the specific organism(s) present.
Protect tubes from damage, leakage, excessive heat and freezing.
Inoculated material must be transported under applicable biological-substance requirements and institutional procedures.

15- Regulatory Information

The finished product is not classified as hazardous under Regulation (EC) No 1272/2008 (CLP) / GHS.
For In-Vitro Diagnostic (IVD)/laboratory use only - ensure compliance with applicable local IVD and biosafety regulatory requirements.
Users are responsible for determining any additional applicable regulations for their jurisdiction and intended use.

This document is prepared as a safety information sheet for the supplied finished product. Classification and labelling requirements may vary by jurisdiction and intended use.
This sheet does not replace supplier SDSs for individual raw materials.

16- Other Information

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Disclaimer

The information contained in this Safety Data Sheet is believed to be accurate based on the current knowledge of the product and its components. It is intended solely as guidance for the safe handling, storage, use, transport, and disposal of the product and should not be considered a warranty or quality specification. Users are responsible for ensuring compliance with applicable local, national, and international regulations.