

Effective date: 23/09/2026	Hy-Labs Cat. No: PD042	MSDS FORMAT	
Doc. No: MSDS- PD042		MATERIAL SAFETY DATA SHEET	Replace Doc: NA

1- Product and Company Identification	
Product Name	PHENYLETHYL ALCOHOL AGAR +DEF.SHEEP BL.
Reference number	PD042
Identified uses	Selective culture medium (blood agar) for laboratory microbiology use. For In-Vitro Diagnostic (IVD) use only. Not for human or animal consumption.
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): This product, as prepared and supplied, is not classified as a hazardous chemical mixture under GHS/CLP at the concentrations present. Label elements: No signal word, hazard pictogram, or hazard statement required for the finished product. Biological hazard: This product contains sheep blood, a biological material of animal origin. Although sourced from screened animals, it should be handled as potentially infectious using standard microbiological/biosafety (Universal Precautions) practices, since absence of transmissible agents cannot be absolutely guaranteed. Other hazards: The finished, prepared product is a solid agar medium (not a flammable liquid). One raw material (phenylethyl alcohol) is classified as hazardous in its concentrated form (see Section 3), but is present at a low concentration in the finished product.	
3- COMPOSITION/INFORMATION ON INGREDIENTS	
This product is a solid (agar) culture medium in tubes, containing the following components: 1) Tryptic Soy Blood Agar Base No. 2 (TSBA No. 2) - BD Difco Supplier Catalogue No.: 227200 Reference/Lot code as supplied: 0027-08-1 Description: Complex mixture (soy/casein peptones, dextrose, sodium chloride, agar) Concentration: 40 g/L Classification: Not classified as hazardous (GHS/CLP) - mixture of nutrient peptones and agar 2) Phenylethyl Alcohol (2-Phenylethanol) - Merck CAS No.: 60-12-8 EC No.: 200-456-2 Catalogue No.: 807006 Concentration: 2.5 mL/L (approx. 0.25% v/v) Classification (concentrate): Acute Tox. 4 (H302 - Harmful if swallowed); Eye Irrit. 2 (H319 - Causes serious eye irritation) Note: At 0.25% v/v in the finished product, concentration is below standard GHS mixture-classification cutoffs for these hazard classes. 3) Sheep Blood (defibrinated) Description: Biological material of animal origin Concentration: 70 mL/L (7% v/v) Classification: Not classified as a hazardous chemical; handle as a potential biohazard per standard laboratory practice (see Section 2 and Section 8). 4) Water (purified/deionized) and agar - balance to volume/gelling agent (see item 1)	
4- First Aid Measures	

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Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. If irritation persists, seek medical attention.

Skin contact: Wash with plenty of water and soap. If irritation develops, seek medical attention. If broken/non-intact skin contacts the product, treat as a potential biological exposure and follow your institution's exposure protocol.

Inhalation: Not an expected route of exposure for a solid agar medium. If dust/aerosol is generated (e.g., during handling of dehydrated base) and irritation occurs, remove to fresh air.

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

Note to physician: Treat symptomatically. Because the product contains animal-derived blood, consider standard precautions for biological exposure (e.g., needlestick/mucous membrane contact) per institutional policy.

For exposure to inoculated material: Follow the laboratory biological-exposure procedure and seek medical evaluation as appropriate.

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. The raw material phenylethyl alcohol has a high flash point (approx. 102°C) and is not classified as a flammable liquid at the concentration used.

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) due to the biological (blood-containing) nature of this product.

For unused product: Wear appropriate laboratory PPE. Avoid direct contact and prevent damage to plates/tubes.

For inoculated product: Treat as potentially infectious biological material and follow the laboratory's validated biological-spill procedure.

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

Methods for containment and cleanup: Wearing appropriate PPE, collect broken tubes/spilled agar using a scoop or absorbent material; avoid generating aerosols. Disinfect the affected surface with a suitable disinfectant (e.g., 10% sodium hypochlorite solution or equivalent) as per standard biosafety practice, then rinse with water. Dispose of waste as described in Section 13.

7- Handling and Storage

Handling: Handle using standard microbiological/good laboratory practice (Biosafety Level appropriate to the organisms being cultured). Avoid contact with eyes, skin, and mucous membranes. Do not ingest. Wash hands after handling. Avoid generating aerosols.

Maintain aseptic technique. Do not use product if packaging is damaged or the medium shows abnormal drying, cracking, contamination or other deterioration.

Storage: Store prepared tubes tightly closed, upright, protected from light, as indicated on the product label/certificate of analysis. Typically stored refrigerated (2-8°C) until the labeled expiry date; avoid freezing. Do not use if the medium shows signs of contamination, excessive drying, or hemolysis inconsistent with expected appearance.

8- Exposure Controls, Personal Protection

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Occupational exposure limits: No specific occupational exposure limits (OEL/TLV) have been established for this finished product. Phenylethyl alcohol is present well below levels of toxicological concern.

Engineering controls: Handle in a well-ventilated area. Use of a biological safety cabinet is recommended when working with inoculated media or unknown/pathogenic cultures, per your laboratory's risk assessment.

Personal protective equipment:

Eye protection: Safety glasses recommended.

Skin protection: Laboratory coat and disposable gloves recommended; treat as a biological material due to the sheep blood content. Wash hands thoroughly after handling.

Respiratory protection: Not normally required for handling sealed/solid media under normal conditions of use.

9- Physical and Chemical Properties

Appearance: Solid agar medium in tubes; amber reddish/brownish-red color (from added sheep blood)

Odor: Faint characteristic odor

pH: Approx. 7.3 ± 0.2

Melting/Softening point: Agar gel melts/liquefies on heating to approx. 85-95°C; sets/gels below approx. 40°C

Flammability: Not flammable (solid, water-based gel)

Solubility: Not applicable (solid gel matrix); soluble/dispersible components dissolve in water on preparation

Flash point: Not applicable to the finished aqueous gel.

Explosive properties: Not expected.

Oxidizing properties: Not expected.

10- Stability and Reactivity

Reactivity: No hazardous reactivity expected under normal conditions of use.

Chemical stability: Stable under normal conditions of storage (refrigerated, protected from light) until the labeled expiry date.

Possibility of hazardous reactions: None known under normal use. No hazardous polymerization expected.

Conditions to avoid: Freezing, excessive heat, prolonged exposure to light, dehydration and microbial contamination during storage.

Incompatible materials: Strong oxidizing agents, strong acids/bases (relevant to raw material handling; not applicable to the finished, prepared medium under normal use).

Hazardous decomposition products: None expected under normal conditions of use and storage. Thermal decomposition of the organic/biological matrix at high temperature may release oxides of carbon and nitrogen.

11- Toxicological Information

Acute toxicity: The finished product is a low-hazard laboratory culture medium. Phenylethyl alcohol (raw material) has reported oral LD50 (rat) of approximately 2230 mg/kg and dermal LD50 (rabbit) >300-2000 mg/kg; it is present in the finished product at only 0.25% v/v.

Skin corrosion/irritation: Not expected to be irritating at the concentrations present in the finished product under normal use.

Serious eye damage/irritation: Not expected to be significantly irritating at the concentrations present in the finished product; avoid direct eye contact as a precaution. The concentrated 2-phenylethanol raw material is classified as Eye Irrit. 2 (H319), but its concentration in the finished medium is approximately 0.25% v/v and is not expected to classify the finished mixture.

Sensitization: Not known to be a significant skin or respiratory sensitizer at the concentrations present.

Mutagenicity, carcinogenicity, reproductive toxicity and STOT: No classification is proposed for the finished mixture based on available information.

Biological hazard: As with any product containing animal blood, there is a theoretical, low risk of exposure to zoonotic biological agents; handle using standard microbiological precautions. After inoculation, the plate/tube may contain viable microorganisms and must be handled as

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potentially infectious material.

12- Ecological Information

Ecotoxicity: Not expected to be significantly harmful to aquatic organisms at the concentrations present; components are common culture-media constituents (peptones, salts, agar) and a low concentration of phenylethyl alcohol.

Persistence and degradability: The organic/biological components (peptones, agar, blood) are expected to be biodegradable.

Bioaccumulative potential: Not expected to bioaccumulate.

Other adverse effects: Dispose of used/inoculated media appropriately (see Section 13) to avoid release of cultured microorganisms into the environment.

Avoid uncontrolled release of large quantities into drains or natural waterways.

13- Disposal Information

This product may contain or support the growth of microorganisms after use/inoculation and should be treated as biohazardous (biological) waste.

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 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.

Do not discharge significant quantities of microbiological culture medium into drains.

14- Transport Information

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, not regulated as dangerous goods

UN Proper Shipping Name: Not applicable

Transport Hazard Class(es): Not applicable

Packing Group: Not applicable

Environmental hazards: Not classified as environmentally hazardous for transport

Special precautions: If shipping used/inoculated media 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.

Transport prepared media under validated conditions, protecting from excessive heat, freezing and physical damage.

15- Regulatory Information

The finished product is not classified as hazardous under Regulation (EC) No 1272/2008 (CLP) / GHS.

Phenylethyl alcohol (raw material) is classified under CLP as Acute Tox. 4 (H302) and Eye Irrit. 2 (H319) in its concentrated form; it is present in the finished product only at 0.25% v/v, below standard mixture-classification cutoffs.

Sheep blood is an animal-derived biological material; users should ensure compliance with applicable local regulations regarding handling of animal-derived materials and biological waste.

For In-Vitro Diagnostic (IVD)/laboratory use only - ensure compliance with applicable local IVD and biosafety regulatory requirements in addition to this chemical/biological safety data sheet.

Users are responsible for determining any additional applicable regulations for their jurisdiction and intended use.

16- Other Information

For In-Vitro use only.

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,

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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.