

Effective date: 27/09/2026	Hy-Labs Cat. No: PD102	MSDS FORMAT	
Doc. No: MSDS- PD102		MATERIAL SAFETY DATA SHEET	Replace Doc: NA

1- Product and Company Identification

Product Name	HAEMOPHYLUS ANTIBIOGRAMMA AGAR (HAA)
Reference number	PD102
Identified uses	Selective enriched culture medium (agar plates) for the isolation and antibiotic susceptibility testing (antibiogram) of Haemophilus species. 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): The finished, prepared agar plate is not classified as a hazardous mixture under GHS/CLP.

Label elements: No signal word, hazard pictogram, or hazard statement required for the finished product.

Manufacturing note - corrosive raw materials: the finished HAA plate itself does not present a corrosive hazard.

Biological hazard: This product contains defibrinated horse blood (via the Fildes Extract Solution), 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.) and, after inoculation, may contain viable pathogenic microorganisms. Handle inoculated plates as potentially infectious material and follow applicable laboratory biosafety procedures. Avoid contact with eyes, skin and mucous membranes. Do not ingest.

Other hazards: Pepsin, a raw material used in Fildes Extract preparation, is a respiratory sensitizer in its concentrated (powder) form; the finished, diluted product does not contain pepsin at a concentration expected to trigger sensitization under normal use.

3- COMPOSITION/INFORMATION ON INGREDIENTS

This product is a solid (agar) selective culture medium in plates, prepared from the following components:

1) Haemophilus Test Medium (HTM) Base -

Description: Complex mixture (Mueller Hinton-type base with added hematin/growth factors)

Concentration: 43 g/L

Classification: Not classified as hazardous (GHS/CLP)

2) beta-Nicotinamide Adenine Dinucleotide (beta-NAD), 98%

CAS No.: 53-84-9

Description: Biochemical growth factor/coenzyme

Concentration: 16 mg/L

Classification: Generally regarded as low-hazard; not classified as hazardous by most suppliers (some safety data note minor potential for eye/mild CNS target-organ effects at high, undiluted exposure) - not expected to be significant at 16 mg/L in the finished agar.

3) Growth factors (Fildes Extract Solution, pH 6.9) - 30 mL/L:

Fildes Extract Solution (finished intermediate): pH-adjusted to approx. 6.9; not classified as hazardous.

All raw-material contributions are far below standard GHS generic concentration cut-offs for classification of the finished mixture.

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

4- First Aid Measures

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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. For concentrated acid exposure during manufacturing, remove contaminated clothing and rinse skin immediately with plenty of water for at least 15 minutes; seek medical attention for any burns.

Inhalation: Not an expected route of exposure for the finished solid agar medium. For fumes from concentrated HCl during manufacturing, or dust from pepsin powder, remove to fresh air immediately; seek medical advice if breathing difficulty, coughing, or allergic/asthma-like symptoms occur.

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. This product's manufacture involves concentrated hydrochloric acid and pepsin (a respiratory sensitizer); consider these if a manufacturing-related exposure incident is reported. The finished product also contains horse blood - consider standard precautions for biological exposure per institutional policy.

After use/inoculation, treat plates as potentially infectious and follow applicable biological exposure procedures.

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. Concentrated hydrochloric acid (raw material used in manufacturing) is not flammable but may react with metals to release flammable hydrogen gas; ensure adequate ventilation during handling of concentrate. Heating or burning may produce irritating or hazardous decomposition products, including carbon oxides, nitrogen oxides and other fumes. Firefighters should use appropriate protective equipment and self-contained breathing apparatus where necessary.

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). For spills of concentrated acid during manufacturing, use acid-resistant PPE (chemical goggles, acid-resistant gloves and apron).

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

Methods for containment and cleanup: For unused product: contain and collect spilled plates using appropriate laboratory precautions. Avoid direct contact with the culture medium. For broken plates or spills involving inoculated material, prevent aerosol generation and treat the material as potentially infectious. Disinfect the affected area using a validated laboratory disinfectant and dispose of contaminated material according to applicable biological-waste procedures.

Dispose of waste as described in Section 13.

7- Handling and Storage

Handling: Handle the finished plates using standard microbiological/good laboratory practice. Avoid contact with eyes, skin, and mucous membranes. Do not ingest. Wash hands after handling.

Storage: Store prepared plates tightly sealed/bagged, inverted, protected from light, heat, freezing, drying and contamination 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 discoloration inconsistent with expected appearance.

Inoculated plates must be handled and stored according to the applicable microbiological biosafety procedure.

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8- Exposure Controls, Personal Protection

Occupational exposure limits: No specific occupational exposure limits (OEL/TLV) have been established for the finished product. For hydrochloric acid (raw material), typical occupational exposure limits (e.g., ACGIH TLV-C 2 ppm) apply during manufacturing/handling of the concentrate.

Engineering controls: Handle the finished product in a well-ventilated area. Use of a biological safety cabinet is recommended when working with inoculated plates.

Personal protective equipment:

Eye protection: Safety glasses recommended for finished product handling;

Skin protection: Laboratory coat and disposable gloves recommended for finished product handling;

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

When handling inoculated cultures or procedures with potential aerosol generation, use the containment and PPE required by the applicable biosafety procedure.

Occupational exposure limits for the finished prepared plate are not established.

9- Physical and Chemical Properties

Appearance: Prepared agar medium in sterile Petri plates; appearance may vary according to the formulation and blood-containing supplement.

Odor: Characteristic/low odour.

Physical state: Solid gel.

pH: Approx. 7.2-7.4

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)

(Values are typical for this type of medium and refer to the general product type; not independently measured for this specific batch.)

Other physical/chemical properties: Not determined for the finished prepared plate.

10- Stability and Reactivity

Chemical stability: The finished product is stable under normal conditions of storage (refrigerated, protected from light) until the labeled expiry date. Avoid excessive heat, freezing, dehydration and contamination.

Possibility of hazardous reactions: None known for the finished product under normal use. No hazardous polymerization is expected.

Conditions to avoid: Freezing, excessive heat, prolonged light exposure, and microbial contamination during storage of the finished product.

Incompatible materials: Strong oxidizing agents, strong bases, and metals (relevant to concentrated HCl raw material handling during manufacturing; not applicable to the finished, prepared medium under normal use).

Hazardous decomposition products: Decomposition products may include carbon oxides, nitrogen oxides and other irritating fumes when exposed to fire or extreme heat. 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 raw material contributions are present at trace concentrations well below levels of acute toxicological concern. Direct contact may cause mechanical or minor irritation.

Skin/eye irritation, sensitization (finished product): Not expected to be significantly irritating or sensitizing at the concentrations present in the finished agar under normal end-user handling.

Biological hazard: As with any product containing animal blood, there is a theoretical, low risk of exposure to zoonotic

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biological agents; handle using standard microbiological precautions. Inoculated plates may contain viable microorganisms and therefore present a biological hazard depending on the organism present.

The finished product should be handled using normal laboratory precautions.

12- Ecological Information

Ecotoxicity: Not expected to be significantly harmful to aquatic organisms at the concentrations present in the finished product; components are common culture-media constituents and trace biochemical/biological materials.

Persistence and degradability: The organic/biological components (nutrient base, agar, blood, pepsin) 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. Neutralize any concentrated acid waste from manufacturing before disposal.

No specific ecological data are available for the finished prepared product.

Avoid uncontrolled release of large quantities into drains or the environment. Components are present in a diluted aqueous culture medium.

Inoculated material must be treated as potentially infectious biological waste and disposed of according to applicable procedures.

13- Disposal Information

Dispose of unused, expired or contaminated plates as laboratory waste in accordance with local and national regulations.

Inoculated plates should be decontaminated by a validated method (for example, an approved autoclave procedure) where applicable before final disposal. Do not dispose of viable cultures or contaminated material as ordinary municipal waste.

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) in accordance with your institution's biosafety procedures and applicable local, national, and international 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 used/inoculated plates 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.

Inoculated plates containing viable microorganisms require packaging and transport controls appropriate to the biological material and applicable regulations.

15- Regulatory Information

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