1- Product and Company Identification

Product Name	ACATHAMOEBA MEDIUM
Reference number	PD580
Identified uses	Used for the isolation of *Naegleria* and *Acanthamoeba*
Manufacturer	**Hy-Laboratories Ltd.** Park Tamar, Rehovot, 76326, Israel Tel: 972-8-9366475 Fax: 972-8-9366474

2- HAZARDS IDENTIFICATION

This product is not classified as hazardous according to the Globally Harmonized System of Classification and Labelling of Chemicals.

Hazard Classification: Not classified as hazardous.
Signal Word: None
Hazard Statements: None required.
Potential Hazards:
Prepared microbiological media may support the growth of microorganisms.
Improper handling after inoculation may expose users to biological agents.
Precautionary Statements:
Use appropriate laboratory personal protective equipment (PPE).
Follow standard microbiological practices.
Sterilize plates after use before disposal.

3- COMPOSITION/INFORMATION ON INGREDIENTS

Component	Concentration
Page's Saline	0.403 g/L
Agar	15 g/L

This product does not contain hazardous substances at concentrations requiring disclosure according to GHS guidelines.

4- First Aid Measures

For unused plates; for used plates, treat as potential infection

Inhalation:
Not expected to present inhalation hazard. If aerosol or smoke from overheating/autoclaving is inhaled, move to fresh air; seek medical attention if irritation or symptoms persist.

Skin Contact:
Wash affected area with soap and water. Seek medical advice if irritation develops.

Eye Contact:
Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Obtain medical advice if irritation persists.

Ingestion:
Rinse mouth with water. Product is not intended for ingestion; if large amounts are swallowed or symptoms occur (nausea, discomfort), seek medical attention.

Most Important Symptoms:
No known significant effects under normal laboratory use.

5- Fire Fighting Measures

Suitable Extinguishing Media: choose based on surrounding fire**.**
Water spray

Foam
Carbon dioxide (CO_2)
Dry chemical powder

Hazards from combustion:

Burning plastic and agar may generate CO, CO_2 and minor amounts of irritating fumes (organic decomposition products, halides from packaging, etc.).

Specific Hazards:

Not considered flammable. Thermal decomposition may produce carbon oxides.

Protective Equipment for Firefighters:

Standard firefighting protective equipment, and self-contained breathing apparatus.

6- Accidental Release Measures

Personal Precautions:

Wear laboratory gloves and protective clothing.
Avoid contamination if plates contain microorganisms.

Containment and Cleanup:

Collect spilled material using absorbent material.
Disinfect contaminated surfaces using appropriate disinfectant.
Dispose according to institutional biological waste procedures.

Unused plates:

Pick up plates and fragments mechanically; place in a suitable container.
Clean the area with water and mild detergent to remove residues.

Used / inoculated plates:

Treat as biohazard. Wear gloves, lab coat, and eye protection as appropriate.
Collect broken plates and agar into a biohazard bag or sharps container.
Disinfect surfaces with appropriate disinfectant (e.g., 0.1–1% sodium hypochlorite or 70% ethanol), according to institutional biosafety procedures.

7- Handling and Storage

Handling:

Handling – unused:

Use standard laboratory hygiene. Avoid ingestion and unnecessary skin/eye contact. Follow standard microbiological laboratory practices.
Avoid contamination before use.
Use appropriate PPE (lab coat, gloves, eye protection).

Handling – used:

Handle under appropriate biosafety level (often BSL-2 for environmental or clinical samples).

Storage:

Store at 2–8°C.
Protect from dehydration.
Keep plates sealed until use.

Keep away from strong acids/bases or reactive chemicals; saline/agar are generally compatible with most materials.

8- Exposure Controls, Personal Protection

Occupational exposure limits:

None established for this mixture; components (dilute NaCl, phosphates, Mg/Ca salts, agar) are considered of low hazard at these levels.

Personal Protective Equipment - PPE:

Laboratory coat
Disposable gloves
Safety glasses or goggles when appropriate

Engineering Controls:

Normal lab ventilation is adequate.
Biological safety cabinet when handling pathogenic microorganisms

9- Physical and Chemical Properties

Property	Description
Appearance	Solid agar medium in Petri dishes
Color	Colorless to slightly opalescent agar
Odor	Odorless or mild
pH	~6.8–7.2
Solubility	Agar dissolves in hot water during preparation
Flammability	Not flammable
Boiling Point	Not applicable
Melting Point	~85–95°C (agar gel melting range)

10- Stability and Reactivity

Chemical Stability:

Stable under recommended storage conditions during stated shelf life.

Conditions to Avoid:

Excess heat, freezing, and drying (for plate integrity).
Prolonged exposure to strong oxidizing agents may degrade agar.
Contamination

Incompatible Materials:

Strong oxidizing agents.

Hazardous Decomposition Products:

Carbon oxides upon thermal decomposition, and minor organic/halogenated products from plate plastics.

11- Toxicological Information

Acute toxicity:

Expected to be low; composition resembles buffered saline and food-grade agar.

Irritation / sensitization:

Possible mild, transient irritation of eyes or skin upon direct contact; sensitization unlikely.

Chronic effects / carcinogenicity:

No components at relevant concentrations are listed as carcinogenic, mutagenic, or reproductive toxins by major agencies (IARC, NTP, OSHA) when present only as dilute salts and agar.

For inoculated plates, toxicological risk derives from the grown organisms, not the medium.

12- Ecological Information

Ecotoxicity:

Low; salts and agar at these concentrations and volumes are not expected to pose a significant environmental hazard.

Persistence / degradability:

Agar is biodegradable; mineral salts are part of natural elemental cycles.

Bioaccumulation:

Not expected.
Avoid uncontrolled release of used plates containing pathogens into the environment.

13- Disposal Information

Unused plates:

May be disposed as non-hazardous laboratory waste in accordance with local regulations; some institutions prefer autoclaving as standard practice.

Used plates:

Autoclave or otherwise disinfect before disposal.

After decontamination, dispose of as biological/medical waste per local regulations and institutional policy.

14- Transport Information

Unused plates:

Not regulated as dangerous goods under common transport regulations (ADR/RID, IMDG, IATA).

Used plates:

If containing infectious agents, shipping must comply with applicable regulations for infectious substances (e.g., UN 3373, Category B), as determined by the organisms present.

15- Regulatory Information

This product is not classified as hazardous according to:

Globally Harmonized System of Classification and Labelling of Chemicals

EU Regulation (EC) No 1272/2008

Product is intended for professional laboratory use; comply with local occupational health and safety and environmental regulations.

16- Other Information

The information in this MSDS is based on current and reliable sources but does not purport to be all inclusive and shall be used only as a guide.

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products.

All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.