1- Product and Company Identification

Product Name	**YPD AGAR (Yeast Peptone Dextrose Agar)**
Reference number	**PD220**
Identified uses	Laboratory cultivation and maintenance of yeasts and routine molecular biology workflows
Manufacturer	**Hy-Laboratories Ltd.** Park Tamar, Rehovot, 76326, Israel Tel: 972-8-9366475 Fax: 972-8-9366474

2- HAZARDS IDENTIFICATION

GHS Classification:

Not classified as hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200) and Regulation (EC) No 1272/2008 (CLP).

Signal Word / Pictograms:

None required.

Hazard Statements:

None - Not classified as hazardous. The mixture does not meet the criteria for classification.

Precautionary Statements P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves and eye protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
P501: Dispose of contents according to local regulations

Other Hazards

The product is sterile when supplied.
Used plates may become biologically hazardous after microbial growth and must be handled accordingly.

3- COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Concentration
Peptone (Bacteriology Grade)	Proprietary	20 g/L (2.0%)
Yeast Extract	8013-01-2	10 g/L (1.0%)
Dextrose (Glucose)	50-99-7	20 g/L (2.0%)
Bacteriological Agar	9002-18-0	15 g/L (1.5%)
Deionized Water	7732-18-5	Balance

4- First Aid Measures

Eyes: Flush gently with plenty of water for at least 15 minutes. Remove contact lenses if present. Seek medical attention if irritation develops.

Skin: Wash thoroughly with soap and water. Solid agar matrix presents minimal absorption hazard.

Inhalation: Unlikely route of exposure for solid prepared plates. Move to fresh air if nuisance odors cause discomfort.

Ingestion: Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Seek medical advice if large quantities are consumed.

5- Fire Fighting Measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide appropriate for surrounding fire, Dry chemical

Specific Hazards: Not flammable. Thermal decomposition can lead to release of irritating gases and vapours (carbon oxides, nitrogen oxides).

Protective Equipment: Wear self-contained breathing apparatus (SCBA) and full protective gear for firefighting if necessary.

Specific Hazards

Product is water based and not flammable.

Burning packaging may produce carbon oxides.

6- Accidental Release Measures

Personal Precautions: Use personal protective equipment (gloves, lab coat). Avoid dust or aerosol formation if agar matrix is crushed.

Environmental Precautions: No special environmental precautions required. Prevent large scale waste disposal into open waterways.

Clean-up Methods:

Wear laboratory gloves.
Pick up mechanically or sweep up solid plates. Broken plates should be collected mechanically
Place in a suitable, closed container for disposal.
Clean surface thoroughly to remove stickiness.
Disinfect contaminated surfaces if biological material is present.
Dispose according to laboratory procedures.

7- Handling and Storage

Handling

Use good laboratory practices.
Avoid contamination.
Wear appropriate personal protective equipment. Eat, drink, and smoke should be prohibited in areas where materials are handled.

Storage

Store plates sealed in original packaging or parafilm wrap at 2-8°C to prevent dehydration and contamination. Do not freeze.

8- Exposure Controls, Personal Protection

Exposure Limits

Contains no substances with occupational exposure limit values.

Engineering Controls

General industrial hygiene practice. Ensure safety eyewash stations are accessible near working areas.
Normal laboratory ventilation.

Eye / Face Protection

Safety glasses with side-shields conforming to EN166 or OSHA requirements.

Skin / Body Protection

Handle with disposable nitrile or latex gloves. Wear a standard laboratory coat.

Respiratory Protection

Respiratory protection is not required when handling solid prepared agar plates.

9- Physical and Chemical Properties

Appearance / State Solid gel matrix in petri dishes
Color Light amber / translucent yellow
Odor Characteristic yeast-like odor
pH Range 6.3 - 6.7 (at 25°C)
Melting / Freezing Point Decomposes / Solidifies below 40°C **Melting Point:** Approximately 85°C (agar)

Boiling Point Not applicable
Flash Point Not applicable
Solubility Hydrogel matrix (soluble in boiling water)
Explosion Properties: None
Oxidizing Properties: None

10- Stability and Reactivity

Reactivity Stable under recommended storage conditions.
Chemical Stability Stable under normal ambient temperatures and pressure.
Possibility of Hazardous Rxns No dangerous reactions known under conditions of normal use.
Incompatible Materials Strong oxidizing agents.
Hazardous Products None under normal storage conditions. Carbon/nitrogen oxides during fire. Carbon monoxide Carbon dioxide
Conditions to Avoid: Freezing, Excessive heat, Drying

11- Toxicological Information

Acute Toxicity No acute toxic effects known. Ingredients are standard nutrient media items.
Skin / Eye Irritation May cause mild mechanical irritation to eyes upon contact with broken gel pieces. Skin Sensitization Not expected.
Respiratory Sensitization Not expected.
Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA.
Mutagenicity No known hazards.
Reproductive Toxicity No known effects.
Aspiration Hazard Not applicable.

12- Ecological Information

Ecotoxicity The product components are organic nutrients and naturally degradable polymers; not toxic to the environment.
Biodegradability Expected to be readily biodegradable.
Persistence Organic components are biodegradable.
Bioaccumulation Not expected.
Mobility Water soluble.

13- Disposal Information

Unused Product
Waste Treatment Unused plates may be disposed of as non-hazardous solid waste in accordance with local regulations.
Used Plates
After microbial inoculation, autoclave before disposal according to institutional biosafety procedures.
Packaging
Recycle where permitted.

14- Transport Information

DOT (US) / IMDG / IATA / ICAO / ADR / RID / UN Number: Not regulated as a dangerous good for transport.
UN Proper Shipping Name Not regulated.
Transport Hazard Class None.
Packing Group Not applicable.
Marine Pollutant No.

15- Regulatory Information

TSCA Inventory All components are listed on the TSCA Inventory or are exempt.

SARA 302 / 311 / 312 / 313 No chemicals in this material are subject to the reporting requirements of SARA Title III.

This preparation is not classified as hazardous according to:

Regulation (EC) No. 1272/2008 (CLP)
Regulation (EC) No. 1907/2006 (REACH)
OSHA Hazard Communication Standard (29 CFR 1910.1200)
GHS

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.