

Effective date: 22/09/2026	Hy-Labs Cat. No: PD013 DD005	MSDS FORMAT	hylabs®
Doc. No: MSDS- PD013 DD005		MATERIAL SAFETY DATA SHEET	Replace Doc: NA

1- Product and Company Identification			
Product Name	CHOCOLATE BLOOD AGAR + SUPPLEMENTS		
Reference number	PD013 / DD005		
Identified uses	Enriched, non-selective solid culture medium for the isolation and cultivation of fastidious microorganisms in laboratory diagnostic and research environments.		
Manufacturer	Hy-Laboratories Ltd. Park Tamar, Rehovot, 76326, Israel Tel: 972-8-9366475 Fax: 972-8-9366474		
2- HAZARDS IDENTIFICATION			
2.1 Classification of the Mixture The unused, sterile, uncontaminated prepared plates are not expected to meet the criteria for classification as hazardous under GHS/CLP. The product contains sterile sheep blood as an enrichment component and should be handled using appropriate laboratory hygiene practices. After inoculation, the plate may contain viable microorganisms, including potentially pathogenic organisms. Used/inoculated plates must therefore be handled as potentially infectious biological material and according to the laboratory's applicable biosafety procedures.			
2.2 GHS Label Elements Not classified as a hazardous substance or mixture according to EC No. 1272/2008 (CLP) or OSHA HCS (29 CFR 1910.1200). Signal Word: None required for the unused product. Hazard Pictograms: None required. Hazard Statements: None required for the unused product.			
2.3 Other Hazards The prepared solid agar plates contain biological materials (sheep blood). Standard biosafety and aseptic laboratory precautions should be maintained Avoid contact with eyes and skin. Do not ingest. Avoid unnecessary manipulation of the agar surface. The medium is specifically designed to support microbial growth. Inoculated plates may contain pathogenic or potentially pathogenic microorganisms. Spilled agar may create a slipping hazard. Do not open or manipulate inoculated plates outside appropriate containment.			
3- COMPOSITION/INFORMATION ON INGREDIENTS			
3.1 Composition of Prepared Medium			
Chemical / Component Name	CAS / EINECS No.	Concentration (w/v or v/v)	GHS Classification
GC Agar Base (Peptones, Starch, NaCl, Agar, Phosphates)	Mixture	~3.6%	Not Hazardous
Defibrinated Sheep Blood (Lysed by heat)	Mixture	~9.4%	Not Hazardous
Vitox Enrichment Supplement (Cysteine, Glutamine, Glucose, NAD, Vitamins)	Mixture	< 0.1%	Not Hazardous
Water / Agar Gel Matrix	7732-18-5	Balance (~87%)	Not Hazardous
Page 1 of 7			

Effective date: 22/09/2026	Hy-Labs Cat. No: PD013 DD005	MSDS FORMAT	
Doc. No: MSDS- PD013 DD005		MATERIAL SAFETY DATA SHEET	Replace Doc: NA

4- First Aid Measures

4.1 Description of First-Aid Measures

Eye Contact:

Immediately rinse cautiously with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.

Skin Contact:

Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation develops or persists.

Inhalation:

The intact agar plate is not expected to present an inhalation hazard during normal handling. If aerosol, droplets, or particles are inhaled, move the affected person to fresh air. Seek medical attention if symptoms occur. If exposed to thermal decomposition vapors, move person to fresh air.

Ingestion:

Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention if symptoms occur.

Exposure to an inoculated plate:

Treat exposure as a potential biological exposure and immediately follow the laboratory's biological exposure procedure.

4.2 Most Important Symptoms and Effects

No significant toxicological effects are expected from normal handling of an unused, sterile plate.

Potential effects following exposure to microorganisms present on inoculated plates depend on the organism involved.

5- Fire Fighting Measures

5.1 Suitable Extinguishing Media

Use extinguishing media appropriate for the surrounding fire:

- Water spray
- alcohol-resistant foam
- Dry chemical
- Carbon dioxide

5.2 Special Hazards

The product is not considered highly flammable.

Heating or combustion may produce irritating or harmful decomposition products, including carbon oxides and nitrogen-containing compounds.

5.3 Protective Equipment for Firefighters

Use standard firefighting protective equipment (SCBA)

Self-contained breathing apparatus should be used where required by the surrounding fire conditions.

6- Accidental Release Measures

6.1 Personal Precautions

Use standard personal protective equipment (laboratory coat, gloves). Avoid physical damage to the plates.

For unused sterile plates:

- Wear laboratory gloves.
- Avoid direct contact with eyes and skin.
- Wear appropriate laboratory protective clothing.

For inoculated/used plates:

- Treat the material as potentially infectious.

Effective date: 22/09/2026	Hy-Labs Cat. No: PD013 DD005	MSDS FORMAT	
Doc. No: MSDS- PD013 DD005		MATERIAL SAFETY DATA SHEET	Replace Doc: NA

- Avoid aerosol generation.
- Do not open or manipulate damaged plates unnecessarily.
- Follow the laboratory's biological spill-response procedure.

6.2 Environmental Precautions

Prevent large quantities of product or contaminated material from entering drains or waterways.

6.3 Methods for Cleanup

Unused product:

- Collect the agar using appropriate laboratory tools.
- Place the material into a suitable waste container.
- Clean the affected surface with an appropriate laboratory disinfectant.

Used/inoculated product:

- Keep the material contained.
- Avoid generating aerosols.
- Apply the laboratory's validated biological decontamination procedure.
- Dispose of the material as regulated biological waste.

7- Handling and Storage

7.1 Precautions for Safe Handling

- Follow good microbiological laboratory practices.
- Wear appropriate PPE.
- Avoid contact with eyes and skin.
- Do not ingest.
- Keep plates closed except when required for laboratory procedures.
- Avoid contamination of unused plates.
- Do not open inoculated plates outside appropriate containment.
- Wash hands thoroughly after handling.

7.2 Conditions for Safe Storage

Store according to the validated product specification.

Store prepared plates in their original sealed packaging at **2–8°C**,

Protect from:

- Excessive heat
- Direct sunlight
- Desiccation
- Freezing, where inappropriate
- Microbial contamination

Maintain the plates in their original packaging until use.

7.3 Incompatible Materials

Avoid contact with strong acids, strong bases, disinfectants, and other chemicals that could affect the performance of the culture medium.

8- Exposure Controls, Personal Protection

8.1 Occupational Exposure Limits

No specific occupational exposure limit has been established for the prepared culture medium.

Biological exposure risks depend on the microorganisms cultured on the medium.

8.2 Engineering Controls

Normal microbiological laboratory controls are appropriate.

A biological safety cabinet should be used where required by the organism, procedure, or laboratory risk assessment.

Ensure general laboratory ventilation is adequate

8.3 Personal Protective Equipment

Eye Protection:

Effective date: 22/09/2026	Hy-Labs Cat. No: PD013 DD005	MSDS FORMAT	
Doc. No: MSDS- PD013 DD005		MATERIAL SAFETY DATA SHEET	Replace Doc: NA

Safety glasses or laboratory goggles.

Hand Protection:

Disposable laboratory gloves, preferably nitrile.

Body Protection:

Laboratory coat or appropriate protective clothing.

Respiratory Protection:

Not normally required for routine handling of intact sterile plates.

Procedures capable of generating infectious aerosols should be performed using appropriate containment and respiratory protection as determined by the applicable risk assessment.

9- Physical and Chemical Properties

Physical State: Solid (Gel/Agar matrix)

Color: Chocolate brown / Opaque dark brown

Odor: Peptone-like, characteristic odor

pH: 7.2 - 7.6

Melting / Freezing Point: Agar liquefies at >85°C; freezes at ~0°C

Solubility: Agar gel matrix is insoluble in cold water; soluble in boiling water

10- Stability and Reactivity

10.1 Reactivity

No hazardous reactivity is expected under normal storage and handling conditions.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

No hazardous polymerization is expected.

10.4 Conditions to Avoid

- Excessive heat
- Freezing where inappropriate
- Desiccation
- Prolonged exposure to direct sunlight
- Contamination
- Storage outside validated conditions

10.5 Incompatible Materials

Strong oxidizing agents.

Avoid contact with:

- Strong acids
- Strong bases
- Strong oxidizing agents
- Disinfectants or antimicrobial agents that could compromise medium performance

10.6 Hazardous Decomposition Products

Thermal decomposition may generate carbon oxides, nitrogen oxides and other irritating decomposition products.

11- Toxicological Information

11.1 Information on Toxicological Effects

The unused, sterile prepared culture medium is not expected to present significant acute toxicity under normal laboratory handling conditions.

Acute Toxicity:

Not expected based on the known composition.

Skin Corrosion/Irritation:

Prolonged contact may cause mild irritation.

Serious Eye Damage/Eye Irritation:

Effective date: 22/09/2026	Hy-Labs Cat. No: PD013 DD005	MSDS FORMAT	
Doc. No: MSDS- PD013 DD005		MATERIAL SAFETY DATA SHEET	Replace Doc: NA

Direct contact may cause temporary irritation.

Respiratory Sensitization:

Not expected from normal handling of intact plates.

Skin Sensitization:

Not expected based on the known composition.

Carcinogenicity:

The prepared medium is not classified as carcinogenic. No components present at levels greater than or equal to 0.1% are identified as probable, possible, or confirmed human carcinogens

Mutagenicity:

Not expected based on the known composition.

Reproductive Toxicity:

Not expected based on the known composition.

STOT – Single Exposure:

No significant effects expected under normal laboratory use.

STOT – Repeated Exposure:

No significant effects expected under normal laboratory use.

Biological Hazard

After inoculation, the medium may contain viable microorganisms, including potentially pathogenic organisms.

The biological hazard is determined by the organism present and the procedure being performed. Used plates should therefore be treated as potentially infectious material.

12- Ecological Information

12.1 Ecotoxicity

Prepared culture media plates are not expected to be hazardous to the environment or aquatic life.

No significant environmental hazard is expected from small quantities of unused product.

12.2 Persistence and Degradability

The organic components may undergo biological degradation. Agar and nutrient components are biodegradable to varying degrees.

12.3 Bioaccumulative Potential

No significant bioaccumulation is expected from the product components.

12.4 Mobility in Soil

Not specifically determined.

12.5 PBT/vPvB Assessment

Not applicable.

12.6 Other Adverse Effects

Large releases should be avoided.

Used or contaminated media may contain viable microorganisms and must be treated as biological waste.

13- Disposal Information

13.1 Waste Treatment Methods

Unused product:

Dispose of according to local laboratory waste procedures and applicable regulations.

Used/inoculated product:

Treat as potentially infectious biological waste.

Used plates should be decontaminated using a validated sterilization or disinfection process before final disposal, according to institutional biosafety procedures.

13.2 Contaminated Packaging

Plates that have been used to culture microorganisms are considered **biohazardous waste**. They must be autoclaved (sterilized at 121°C) or incinerated before disposal.

Dispose of contaminated packaging in accordance with applicable biological or laboratory waste procedures.

Effective date: 22/09/2026	Hy-Labs Cat. No: PD013 DD005	MSDS FORMAT	
Doc. No: MSDS- PD013 DD005		MATERIAL SAFETY DATA SHEET	Replace Doc: NA

14- Transport Information

DOT (US) / ADR/RID (Europe) / IMDG / IATA: Not regulated as a dangerous good for transport. No special precautions required

UN Number

Not regulated as dangerous goods.

UN Proper Shipping Name

Not regulated.

Transport Hazard Class

Not applicable.

Packing Group

Not applicable.

Environmental Hazards

Not classified as environmentally hazardous for transport.

Special Precautions

Transport and store under the validated conditions required to maintain the quality and performance of the prepared medium.

Note: Inoculated/used plates containing viable microorganisms may be subject to additional transport requirements depending on the organism and applicable regulations.

15- Regulatory Information

15.1 Classification

The unused, sterile and uncontaminated prepared culture medium is not expected to require classification as a hazardous chemical under GHS/CLP based on its formulation.

GHS

Not classified as hazardous as supplied.

EU CLP Regulation (EC) No. 1272/2008

No hazardous classification is expected for the prepared, uncontaminated product based on the stated formulation.

OSHA Hazard Communication Standard

The unused prepared product is not expected to meet the criteria for classification as a hazardous chemical.

TSCA (USA) / REACH (Europe): Components of this mixture are either exempt from listing or are compliant with these inventory lists.

SARA 313 / 302: This material does not contain any chemical components subject to the reporting requirements of SARA Title III.

Biological Safety

Once inoculated, the product must be handled according to the applicable biosafety requirements for the microorganism(s) present.

16- Other Information

Abbreviations

SDS: Safety Data Sheet

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging

PPE: Personal Protective Equipment

SOP: Standard Operating Procedure

IVD: In Vitro Diagnostic

Effective date: 22/09/2026	Hy-Labs Cat. No: PD013 DD005	<u>MSDS FORMAT</u> MATERIAL SAFETY DATA SHEET	
Doc. No: MSDS- PD013 DD005			Replace Doc: NA

The information in this SDS is based on the formulation supplied and available information concerning the individual raw materials.

This SDS is intended to provide guidance for the safe handling, storage, use and disposal of the prepared product. It does not constitute a Certificate of Analysis or product specification.

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.