

PRODUCT INFORMATION

Product Type: PETRI DISHES 90mm

Cat No. PD042 - PHENYLETHYL ALCOHOL AGAR +DEF. SHEEP BLOOD

Intended Use:

Phenylethyl Alcohol Agar (PEA) with 5% Defibrinated Sheep Blood is a selective and enriched medium widely used in clinical microbiology for isolating gram-positive bacteria, especially from specimens containing mixed flora, from clinical and nonclinical materials.

For in vitro diagnostic use.

Principle and Uses:

Selective action: Phenylethyl alcohol inhibits most gram-negative bacteria by interfering with DNA synthesis, while allowing gram-positive organisms such as Staphylococcus and Streptococcus to grow robustly.

Sheep blood enrichment: The addition of 5% defibrinated sheep blood provides growth factors, making the medium suitable for more fastidious gram-positive organisms and allowing the recovery of hemolytic reactions (though hemolysis may appear atypical on PEA agar).

Clinical applications: Especially useful for isolating gram-positive cocci from specimens contaminated with gram-negative bacteria or swarming Proteus species.

Instructions for use

1. Allow the medium in the plate to dry before use.
2. Observe aseptic techniques.
3. Streak the specimen as soon as possible after receiving.
Alternatively, if material is being cultured directly from swab, roll the swab over a small area of the surface at the edge and streak from this inoculated area.
4. Incubate plates at $35 \pm 2^\circ \text{C}$ for 24-48 hours, in an aerobic atmosphere supplemented with 5% CO₂.

Method Limitations and Precautions

The medium should not be used for determination of hemolytic reactions, since atypical reactions may be observed.

For identification, organisms must be in pure culture.

If excessive moisture is observed on the plates, invert the bottom over an off-set lid and allow to air dry in order to prevent formation of a seal between the top and bottom of the plate during incubation.

Follow standard safety precautions for the handling and the discarding of the test materials.

Composition

Tryptone H - 15 g/L,
Soytone - 5 g/L,
Sodium Chloride - 5 g/L,
Agar - 15 g/L
Phenylethyl Alcohol - 2.5 ml/L
Defibrinated Sheep Blood - 50 ml/L

Storage: 2-8°C

Appearance: Cherry red

pH Range: 7.1 - 7.5

Package contents: 10 plates in a package

Exp. Date: Printed on label and on the item.

Required materials not supplied: Laboratory equipment as required.

Warning and Precautions - For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use Petri dishes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Petri Dishes may be used / inoculated up to the expiration date and incubated for the recommended incubation times. After use and prior to discarding, specimen containers and all contaminated material, including the used culture media and contaminated culture containers, must be sterilized or incinerated by validated procedures. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.

If excessive moisture is observed, invert the bottom over an off-set lid and allow to air dry in order to prevent formation of a seal between the top and bottom of the plate during incubation. Storage Instructions: On receipt, store plates in the dark at 2–8 °C. Avoid freezing and overheating. Do not open until ready to use.

Waste Disposal

After interpretation all plates should be destroyed by standard incineration methods.

Performance Testing Results

GPT: Inoculum 10-100 cfu.

Inhibitory properties: Inoculum 10000 cfu.

TEST	ATCC	Incubation Temp. (°C)	Incubation Cond	Reaction 1	
<i>Staphylococcus aureus</i>	25923	33-37 °C	5% CO2, 24-48 hours	Growth	Beta hemolytic reaction
<i>Streptococcus pyogenes group A</i>	19615	33-37 °C	5% CO2, 24-48 hours	Growth	Beta hemolytic reaction
<i>Enterococcus faecalis</i>	19433	33-37 °C	5% CO2, 24-48 hours	Growth	
<i>Escherichia coli</i>	25922	33-37 °C	5% CO2, 24-48 hours	Partially inhibited	
<i>Proteus mirabilis</i>	4630	33-37 °C	5% CO2, 24-48 hours	Partially Inhibited	

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Hy Laboratories Ltd.

6 Menachem Plaut St., Park Tamar, Rehovot 7670606, Israel

Tel. +972.8.9366475 Email. hylabs@hylabs.co.il

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