

PRODUCT INFORMATION

Product Type: PETRI DISHES 90mm

Cat No. PD161 - C. BLOOD + GENTAMYCIN

Intended Use:

Columbia Agar with gentamicin and sheep blood is a selective, enriched medium ideal for isolating fastidious Gram-positive organisms and detecting hemolytic activity, while effectively suppressing Gram-negative contaminants in clinical specimens, used as selective agar for detection of *Streptococcus pneumonia*.

Principle and Uses:

- **Selective Isolation:** The medium is particularly useful for isolating beta-hemolytic streptococci, staphylococci, and other fastidious Gram-positive organisms from specimens where Gram-negative overgrowth is a concern
- **Hemolysis Detection:** Sheep blood enables the identification of hemolytic patterns (alpha, beta, gamma), aiding in the differentiation of streptococci and other bacteria.
- **General Diagnostic Use:** Suitable for routine diagnostic work, especially for throat, wound, and respiratory specimens with mixed flora.

Component Function

Columbia Agar Base	Nutrient-rich support for fastidious organisms
Gentamicin	Inhibits Gram-negative bacteria, increases selectivity
Sheep Blood	Supplies growth factors, enables hemolysis detection

Composition

Special peptone - 23.0 g/L
Starch - 1.0 g/L
Sodium chloride - 5.0 g/L
Agar - 10.0 g/L
Gentamycin - 5 mg/L
Sheep Blood - 50 ml/L

Storage: 2-8°C

Appearance: Cherry Red Opaque

pH Range: 7.2 - 7.6

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>Streptococcus pneumoniae</i>	49619	33-37 °C	5%CO ₂ , 24 hours	Growth	Alpha hemolytic reaction
<i>Staphylococcus aureus</i>	25923	33-37 °C	5%CO ₂ , 24 hours	Inhibited	
<i>Escherichia coli</i>	25922	33-37 °C	5%CO ₂ , 24 hours	Partially inhibited	
<i>Proteus mirabilis</i>	4630	33-37 °C	5%CO ₂ , 24 hours	Partially Inhibited	
<i>Pseudomonas aeruginosa</i>	27853	33-37 °C	5%CO ₂ , 24 hours	Inhibited	