

PRODUCT INFORMATION

Product Type: LD525 - 50mm DISHES
PD147 - 90mm DISHES

Cat No. LD525 - M. ENTEROCOCCUS AGAR – SLANETZ BATLEY AGAR
PD147 - SLANETZ BARTLEY AGAR

Intended Use:

Slanetz Bartley Agar is a selective and differential culture medium recommended by ISO 7899-2 for the detection and enumeration of intestinal enterococci, especially in water (Standard Methods 9230 C) and food samples, using the membrane filtration method or direct plating.

Principles and uses:

Selectivity: Sodium Azide in the medium inhibits Gram-negative bacteria and staphylococci, making the medium highly selective for enterococci.

Differentiation: Enterococci reduce the redox indicator 2,3,5-triphenyltetrazolium chloride (TTC) to insoluble red formazan, resulting in red to maroon colonies, which are easily distinguished from other bacteria.

Nutrient Base: Tryptose and yeast extract provide amino acids, nitrogen, vitamins, and minerals essential for the growth of enterococci. Glucose serves as the fermentable carbohydrate and energy source. Dipotassium phosphate acts as a buffer.

Agar: Solidifying agent.

Composition:

Tryptose - 20.0 g/L
Yeast Extract - 5.0 g/L
Glucose - 2.0 g/L
Dipotassium Phosphate - 4.0 g/L
Sodium Azide - 0.4 g/L
TTC (Triphenyltetrazolium chloride) - 0.10
Agar - 10.0 g/L

Storage: 2-8°C

Appearance: Pale, translucent pinkish to beige.

pH Range: 7.1 - 7.3

Package contents: LD525 - 5 plates in a package, PD147 – 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 items 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	
LD525					
<i>Enterococcus faecalis</i>	19433	33-37 °C	Aerobic, 24 hours	Growth	Pink-red
<i>Enterococcus faecium</i>	WS W160C	33-37 °C	Aerobic, 24 hours	Growth	Pink-red
<i>Escherichia coli</i>	25922	33-37 °C	Aerobic, 24 hours	Partially inhibited	
<i>Staphylococcus aureus</i>	25923	33-37 °C	Aerobic, 24 hours	Inhibited	
<i>Streptococcus mitis</i>	6249	33-37 °C	Aerobic, 24 hours	Inhibited	
PD147					
<i>Enterococcus faecalis</i>	19433	33-37 °C	Aerobic, 24-48 hours	Growth	Small pink-red
<i>Escherichia coli</i>	25922	33-37 °C	Aerobic, 24-48 hours	Partially inhibited	
<i>Staphylococcus aureus</i>	25923	33-37 °C	Aerobic, 24-48 hours	Inhibited	