

PRODUCT INFORMATION

Product Type: Bottle product (500ml)

Cat No. BP469/100S - D/E NEUTRALIZING BROTH (DENB), 100 ML

Intended Use:

D/E Neutralizing Broth is used to neutralize and determine the bactericidal activity of antiseptics and disinfectants. D/E Neutralizing Broth is not intended for use in the diagnosis of disease or other conditions in humans.

For in-vitro laboratory use only.

Principle and Uses

D/E Neutralizing Broth was developed by Dey and Engley to neutralize a broad spectrum of disinfectants and preservative antimicrobial chemicals, including quaternary ammonium compounds, phenolics, iodine, chlorine preparations, mercurials, formaldehyde, and glutaraldehyde. D/E Neutralizing media neutralize higher concentrations of residual antimicrobials when compared with other standard neutralizing formulations, such as Lethen media, Thioglycollate media, and Neutralizing Buffer.

Total neutralization of disinfectants is critical. Disinfectant residues can result in a false-negative (nogrowth) test. D/E Neutralizing Broth effectively neutralizes the inhibitor action of disinfectant carryover, allowing differentiation between bacteriostasis and the true bactericidal action of disinfectant chemicals. This is a critical characteristic to consider when evaluating a disinfectant. D/E Neutralizing Broth is recommended for use in disinfectant evaluations, environmental sampling (swab and contact plate methods), and testing of water-miscible cosmetics.

Limitations

Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.

Composition:

Enzymatic Digest of Casein - 5.0 g/L
Yeast Extract - 2.5 g/L
Dextrose - 10.0 g/L
Sodium Thioglycollate - 1.0 g/L
Sodium Thiosulfate - 6.0 g/L
Sodium Bisulfite - 2.5 g/L
Lecithin - 7.0 g/L
Bromocresol Purple - 0.02 g/L
Tween 80 - 4.7 ml/L

Storage: 2-25°C

Appearance: opaque, may appear flocculent upon sitting, and lavender to bluish-purple.

pH: 7.4 - 7.8

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 Bottles if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Bottles 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.

Waste Disposal

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

Performance Testing Results

GPT: inoculum 10-100 cfu

TEST	ATCC	Incubation Temp. (°C)	Incubation Cond.	Reaction 1	
<i>Escherichia coli</i>	25922	33-37 °C	Aerobic, 48-72 hours	Growth	Yellow color
<i>Staphylococcus aureu</i>	25923	33-37 °C	Aerobic, 48-72 hours	Growth	Yellow color
<i>Bacillus cereus</i>	14579	33-37 °C	Aerobic, 48-72 hours	Growth	Yellow color
<i>Pseudomonas aeruginosa</i>	27853	33-37 °C	Aerobic, 48-72 hours	Growth	Color of broth w/o change
<i>Aspergillus niger</i>	16404	33-37 °C	Aerobic, 48-72 hours	Growth	Color of broth w/o change

Growth promotion test: the batch is released if microbial growth from minimum inoculum (10-100 cfu) is observed in all test containers.