

DEY-ENGLY NEUTRALIZING BROTH BASEProduct Number **D3310****Product Description**

Dey-Engley Neutralizing Broth Base is used in disinfectant testing where the neutralization of the antiseptics and disinfectants is important for determining its bactericidal activity. The Dey-Engley Neutralizing Broth Base neutralizes a broad spectrum of antiseptics and disinfectants including, quaternary ammonium compounds, phenolics, iodine, chlorine, mercurials, formaldehyde and glutaraldehyde. Sodium thioglycollate, sodium thiosulphate, sodium bisulphite, soya lecithin and polysorbate 80 act as neutralizing components. Growth is indicated by a color change from purple to yellow.

Components

Item	g/L
Casein Enzymic Hydrolysate	5.00
Yeast Extract	2.50
Dextrose	10.00
Bromo Cresol Purple	0.02

Final pH (at 25°C) 7.6 ± 0.2 **Precautions and Disclaimer**

For laboratory use only. Not for drug, household or other uses.

Preparation Instructions

Suspend 17.5 grams of Dey-Engley Neutralizing Broth Base in 1000 mls of distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving 15 lbs. pressure (121°C) for 15 minutes.

Storage

Store the dehydrated medium at 2-8°C and the prepared medium at 2-8°C.

Procedure

1. For testing disinfectants, prepare two sets of test tubes, one containing 9 mls of (D3435)

Product Information

Dey-Engley Neutralizing Broth and the other containing 9 mls of (D3310) Dey-Engley Neutralizing Broth Base.

2. Add 1 ml of disinfectant to each tube.
3. Mix well and allow it to stand for 15 minutes.
4. Inoculate 0.1 ml of a 1:100,000 dilution of overnight broth cultures and incubate at 37°C for 48 hours. Growth is indicated by a color change from purple to yellow.
5. Growth in the (D3435) Dey-Engley Neutralizing Broth and no growth in the (D3310) Dey-Engley Neutralizing Broth Base indicates the neutralization of disinfectant.
6. To check bactericidal activity, both broth tubes are inoculated on Dey-Engley Neutralizing Agar.
7. Positive growth from negative tubes of Neutralizing Broth Base indicates a bacteriostatic substance, while negative growth indicates a bactericidal disinfectant.

Product Profile

Appearance	Bluish, grey colored, homogeneous, free flowing powder.
Color and Clarity	Purple colored, opalescent solution or gel forms in tubes or petri plates.
Cultural Response	Cultural characteristics are observed after 40-48 hours at 35-37°C.

Organism

<i>Bacillus subtilis</i>	luxuriant
<i>Escherichia coli</i>	luxuriant
<i>Pseudomonas aeruginosa</i>	luxuriant
<i>Salmonella typhimurium</i>	luxuriant
<i>Staphylococcus aureus</i>	luxuriant

Growth

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