

PRODUCT INFORMATION

D/E Neutralizing Broth

Cat. No. D04-115

DESCRIPTION

D/E (Dey/Engley) Neutralizing Broth is used for neutralizing and determining the bactericidal activity of antiseptics and disinfectants. Tryptone and Yeast Extract provide a source of nitrogen, carbon and vitamins. Dextrose is an energy and carbon source and bromocresol purple is used as an indicator for the fermentation of this dextrose. Sodium Thiosulfate is incorporated to neutralize chlorine and iodine, sodium thioglycolate neutralizes mercurial substances. Lecithin neutralizes quaternary ammonium compounds. Tween 80 neutralizes phenols and formalin. The organisms that ferment dextrose will turn the medium from a purple to yellow color.

FORMULA (g/L)

Tryptone	5.0 g	Sodium Bisulfite	2.5 g
Yeast Extract	2.5 g	Tween 80	5.0 g
Dextrose	10.0 g	Lecithin	7.0 g
Sodium Thioglycollate	1.0 g	Bromocresol Purple	0.02 g
Sodium Thiosulfate	6.0 g		

Final pH: 7.6 ± 0.2 at 25 °C

*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

PREPARATION

Mix 39 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave at 121°C for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, moist, lumpy and bluish grey.
2. Visually the prepared medium is opaque and lavender.
3. Expected cultural response after 40-48 hours at 35 °C.



ORGANISM	RESULT
<i>Salmonella typhimurium</i> ATCC 14028	Good Growth
<i>Escherichia coli</i> ATCC 25922	Good Growth
<i>Staphylococcus aureus</i> ATCC 25923	Good Growth
<i>Pseudomonas aeruginosa</i> ATCC 27853	Good Growth
<i>Bacillus subtilis</i> ATCC 6633	Good Growth

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.