



Dehydrated Culture Media
Instructions for Use

D/E NEUTRALIZING BROTH (M142) Dehydrated Culture Media

USE: D/E (Dey/Engley) Neutralizing Broth has the ability to neutralize antimicrobial chemicals and is used for environmental sampling for the detection and enumeration of microorganisms present on surfaces of sanitary importance.

DESCRIPTION: D/E Neutralizing Broth is used for environmental sampling where neutralization of the chemical is important to determine its bactericidal or bacteriostatic activity. This medium will neutralize a broad spectrum of antiseptic and disinfectant chemicals, including quaternary ammonium compounds, phenolics, iodine and chlorine preparations, mercurial, formaldehyde, and glutaraldehyde.¹ D/E Neutralizing Broth neutralize higher concentrations of residual antimicrobials when compared with other standard neutralizing formulations, such as Lethen media, Thioglycollate media, and Neutralizing Buffer.^{2,3}

FORMULA:

Pancreatic 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 Bisulfate	2.5 g/L
Polysorbate 80	5.0 g/L
Lecithin.....	7.0 g/L
Bromocresol Purple	0.02 g/L
Total	39 g/L

Note: Medium may be adjusted and/or supplemented as required to meet performance criteria.

Final pH: 7.6 ± 0.2 at 25°C

PHYSICAL APPEARANCE:

Dehydrated Appearance – Bluish-grey, homogeneous, appears moist and lumpy.

Prepared Appearance – Solution is purple, opaque with an even suspension of particles.

PROCEDURE: Mix 39 grams of the medium in one liter of purified water. Warm with repeated stirring to dissolve. Autoclave at 121°C for 15 minutes.

EXPECTED RESULTS: Cultural response after 40-48 hours at 35°C.

Microorganism	CFU	Growth	Reaction
<i>E. coli</i>	10 ² -10 ³	+	Yellow
ATCC™ 25922			
<i>S. enterica</i> ser Typhimurium	10 ² -10 ³	+	Yellow
ATCC™ 14028			
<i>B. subtilis</i>	10 ² -10 ³	+	-
ATCC™ 6633			
<i>P. aeruginosa</i>	10 ² -10 ³	+	-
ATCC™ 27853			
<i>S. aureus</i>	10 ² -10 ³	+	Yellow
ATCC™ 25923			

STORAGE: Store the product at 2-30°C protected from moisture for up to the expiration date.

LIMITATIONS: For laboratory use only. The dehydrated medium should be discarded if there are any changes in the color or if it is no longer free flowing.

SIZES AVAILABLE: 39g (1L pre-weighed), 500g, 2kg, 10kg

PACKAGING: Additional configurations are available upon request.

REFERENCES:

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