

D/E Neutralizing Broth

Liquid medium for testing antiseptics and disinfectants.

TYPICAL FORMULA	(g/l)
Enzymatic Digest of Casein	5.0
Yeast Extract	2.5
Dextrose	10.0
Sodium Thioglycollate	1.0
Sodium Thiosulfate	6.0
Sodium Biosulfite	2.5
Lecithin	7.0
Tween 80	5.0
Bromcresol Purple	0.02
Final pH 7.6 ± 0.2 at 25°C	

DESCRIPTION

D/E Neutralizing Broth is a liquid medium used for neutralizing disinfectants in qualitative procedures for environmental sampling, allowing to distinguish between bacteriostatic and bactericidal activity.

PRINCIPLE

Enzymatic digest of casein provides amino acids, nitrogen, carbon, minerals, vitamins and other nutrients which support the growth of microorganism. Yeast extract is a source of vitamins, particularly of B-group. Dextrose is the fermentable carbohydrate. Sodium thioglycollate neutralizes mercurial compounds. Sodium thiosulfate neutralizes iodine and chlorine. Sodium biosulfite neutralizes aldehydes. Tween 80 is a non-ionic surface-active agent which serves to neutralize phenolics. Lecithin neutralizes quaternary ammonium compounds. Bromcresol purple is the pH indicator.

TECHNIQUE

Inoculate the media as desired and incubate with caps loosened under aerobic atmosphere at $35 \pm 2^\circ\text{C}$ for 24-48 hours.

INTERPRETATION OF RESULTS

Either the color change of the medium from purple to yellow or the formation of a pellicle on the surface of the broth indicate microbial growth.

STORAGE

10-25°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

WARNING AND PRECAUTIONS

For professional use only. Operators must be trained and have certain experience in the laboratory methods. Please read the instructions carefully before using this product. Reliability of assay results cannot be guaranteed if there are any deviations from the instructions in this document.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

REFERENCES

- Dey B.P. and F.B. Engley Jr. (1995) Comparison of Dey and Engly (D/E) Neutralizing Medium to Lethen Medium and Standard Methods Medium recovery of *Staphylococcus aureus* from sanitized surfaces. *J. Ind. Microbiol.* 14:21-25
- Dey B.P. and F.B. Engley Jr. (1994) Neutralization of antimicrobial chemicals by recovery media. *J. Microbiol. Methods.* 19:51-58.
- Dey B.P. and F.B. Engley Jr. (1983) Methodology for recovery of chemical treated *Staphylococcus aureus* with neutralizing medium. *Appl. Environ. Microbiol.* 45:1533-1537.
- Engely F.B. Jr. and B.P. Dey (1970) A universal neutralizing medium for antimicrobial chemicals. *Chem. Spec. Manuf. Assoc. Proc. Mid-Year Meet.* p. 100-106.



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PRODUCT SPECIFICATIONS

NAME

D/E Neutralizing Broth

PRESENTATION

Glass bottles containing liquid medium

STORAGE

10-25°C

PACKAGING

Ref.	Content	Packaging
403210	6 bottles x 100 ml	6 bottles in cardboard box
412460	6 bottles x 200 ml	6 bottles in cardboard box

pH OF THE MEDIUM

7.6 ± 0.2

USE

D/E Neutralizing Broth is a liquid medium used for neutralizing disinfectants in qualitative procedures for environmental sampling, allowing to distinguish between bacteriostatic and bactericidal activity

TECHNIQUE

Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM

Appearance: opaque, may appear flocculent upon sitting
Colour: purple

SHELF LIFE

1 year

QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control
7 days at 22 ± 2°C, in aerobiosis
7 days at 35 ± 2°C, in aerobiosis
- Microbiological control
Bottles are prepared with and without the addition of disinfectants.
Inoculum: 10³-10⁴ CFU
Incubation conditions: 24-48 h at 35 ± 2°C

Microorganism

<i>Bacillus subtilis</i>	ATCC® 6633
<i>Escherichia coli</i>	ATCC® 8739
<i>Pseudomonas aeruginosa</i>	ATCC® 27853
<i>Salmonella</i> Typhimurium	ATCC® 14028
<i>Staphylococcus aureus</i>	ATCC® 6538

Growth

Good
Good
Good
Good
Good

TABLE OF SYMBOLS

 Batch code	 Do not reuse	 Manufacturer	 Use by	 Fragile, handle with care
 Catalogue number	 Temperature limitation	 Contains sufficient for <n> tests	 Caution, consult instructions for use	



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