

TM 1530 – DEY-ENGLEY (D/E) NEUTRALIZING BROTH (W/O BROMO CRESOL PURPLE) (as per USP)

INTENDED USE

For neutralization of antiseptics and disinfectants in determining its bactericidal activity.

PRODUCT SUMMARY AND EXPLANATION

Dey-Engley (D/E) Neutralizing Broth (without Bromo cresol purple) is formulated as per United States Pharmacopoeia. It neutralizes a broad spectrum of antiseptics and disinfectants including quaternary ammonium compounds, phenolics, iodine and chlorine preparations, mercurials, formaldehyde and glutaraldehyde.

COMPOSITION

| Ingredients | Gms / Ltr |
|-----------------------|-----------|
| Tryptone | 5.000 |
| Yeast extract | 2.500 |
| Dextrose (Glucose) | 10.000 |
| Sodium thioglycollate | 1.000 |
| Sodium thiosulphate | 6.000 |
| Sodium bisulphite | 2.500 |
| Lecithin | 7.000 |
| Polysorbate 80 | 5.000 |

PRINCIPLE

The medium consists of Tryptone which provides essential nutrients. Dextrose is an energy source. Yeast extract is also a rich source of vitamin B complex. Sodium thioglycollate, sodium thiosulphate, sodium bisulphite, soya lecithin and polysorbate 80 act as neutralizing components.

INSTRUCTION FOR USE

- Dissolve 39 grams in 1000 ml purified/distilled water.
- Heat if necessary to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

QUALITY CONTROL SPECIFICATIONS

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|--------------------------------------|--|
| Appearance of Powder | : Cream to yellow homogeneous free flowing powder. |
| Appearance of prepared medium | : Light yellow coloured opalescent solution. |
| pH (at 25°C) | : 7.6 ± 0.2 |

INTERPRETATION

Cultural characteristics observed after incubation.

| Microorganism | ATCC | Inoculum (CFU/ml) | Growth | Incubation Temperature | Incubation Period |
|---------------|------|-------------------|--------|------------------------|-------------------|
| | | | | | |



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|---------------------------------|-------|--------|-----------|----------|----------|
| <i>Escherichia coli</i> | 8739 | 50-100 | Luxuriant | 30-35 °C | <=3 Days |
| <i>Pseudomonas aeruginosa</i> | 27853 | 50-100 | Luxuriant | 30-35 °C | <=3 Days |
| <i>Salmonella Typhimurium</i> | 14028 | 50-100 | Luxuriant | 30-35 °C | <=3 Days |
| <i>Staphylococcus aureus</i> | 25923 | 50-100 | Luxuriant | 30-35 °C | <=3 Days |
| <i>Bacillus subtilis</i> | 6633 | 50-100 | Luxuriant | 30-35 °C | <=3 Days |
| <i>Aspergillus brasiliensis</i> | 16404 | 10-100 | Luxuriant | 20-25 °C | <=5 Days |
| <i>Candida albicans</i> | 10231 | 10-100 | Luxuriant | 20-25 °C | <=5 Days |

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. The United States Pharmacopoeia 2011, The US Pharmacopoeial Convention Inc., Rockville, MD.



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|---|---|--|---|---|
|  GMP Good Manufacturing Practices Certified |  Best Before |  Quantity |  Catalogue Number |  Manufacturer |
|  Temperature Unit |  Lot / Batch Number |  Consults Instructions for Use |  QR Code | |

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
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