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## NUTRIENT BROTH

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### INTENDED USE

Nutrient Broth is used for the cultivation of many species of nonfastidious microorganisms.

### SUMMARY AND EXPLANATION

Nutrient Broth has the formula originally designed for use in the Standard Methods for Examination of Water and Wastewater. It is not a recommended bacteriological medium in later editions of this publication. It is one of several nonselective media useful in routine cultivation of microorganisms.<sup>1-3</sup>

### PRINCIPLE

This relatively simple formulation supports the growth of nonfastidious microorganisms due to its content of peptone and beef extract.

### REAGENTS (FORMULA)

|                       |        |    |
|-----------------------|--------|----|
| Beef Extract .....    | 3.0    | g  |
| Peptone .....         | 5.0    | g  |
| Deionized Water ..... | 1000.0 | ml |

### PROCEDURE

Inoculate tubes of the broth medium with the test samples. Incubate tubes for 18-24 hours at  $35 \pm 2^{\circ}\text{C}$  in an aerobic atmosphere.

### EXPECTED RESULTS

After incubation, growth is evidenced by the appearance of turbidity in the broth. Aliquots of the broth can be used for subculturing to solid media for purification and identification purposes.

## QUALITY CONTROL

All lot numbers have been tested and have been found to be acceptable. Customers can test products using the following quality control organisms. Testing of control organisms should be performed in accordance with established laboratory quality control procedures. If aberrant quality control results are noted, sample results should not be reported.

| <b>Organisms</b>                        | <b>Incubation</b>        | <b>Results</b> |
|---|--------------------------|----------------|
| <i>Enterococcus faecalis</i> ATCC 19433 | 35 ± 2°C for 18-48 hours | Growth         |
| <i>Escherichia coli</i> ATCC 25922      | 35 ± 2°C for 18-48 hours | Growth         |
| <i>Staphylococcus aureus</i> ATCC 25923 | 35 ± 2°C for 18-48 hours | Growth         |

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## BIBLIOGRAPHY

1. Marshall (ed.). 1993. Standard methods for the examination of dairy products, 16th ed. American Public Health Association, Washington, D.C.
2. U.S. Food and Drug Administration. 2001. Bacteriological analytical manual, online. AOAC International, Gaithersburg, Md.
3. Downes and Ito (ed.). 2001. Compendium of methods for the microbiological examination of foods, 4th ed. American Public Health Association, Washington, D.C.

Viikinkaari 6, 00790 Helsinki Room 306A5

Phone: +358 (45) 8016507

Email: [info@abbadis-life.com](mailto:info@abbadis-life.com)

Website: <https://abbadis-life.com>