NUTRIENT BROTH

INTENDED USE
Remel Nutrient Broth is a liquid medium recommended for use in qualitative procedures as a general purpose culture medium for cultivation of nonfastidious organisms.

SUMMARY AND EXPLANATION
In 1917, the American Public Health Association (APHA) published the formulation for a standardized medium for use in the examination of water, wastewater, dairy products, and various foods.[1] This medium, which became known as Nutrient Broth, is formulated according to the recommendations of the APHA and AOAC International (AOAC).[2-4] Nutrient Broth is specified in current compendia of methods for the microbiological examination of various materials and is useful for maintenance of stock cultures.

PRINCIPLE
Beef extract provides carbohydrates, vitamins, nitrogen compounds, and salts. Gelatin peptone supplies nutrients in the form of amino acids and peptides. When used in combination, beef extract and gelatin peptone have been found to be as nutritious as meat infusion.

REAGENTS (CLASSICAL FORMULA)*
Gelatin Peptone	5.0 g	Beef Extract	3.0 g
		Demineralized Water	1000.0 ml

pH 6.8 ± 0.2 @ 25°C

*Adjusted as required to meet performance standards.

PRECAUTIONS
This product is For Laboratory Use only. It is not intended for use in the diagnosis of disease or other conditions.

PREPARATION OF DEHYDRATED CULTURE MEDIUM
1. Suspend 8 g of medium in 1000 ml of demineralized water.
2. Warm slightly, if necessary, to completely dissolve.
3. Sterilize by autoclaving at 121°C for 15 minutes or following established laboratory procedures.
4. Dispense into appropriate containers.

PROCEDURE
1. Consult current editions of appropriate references for the recommended procedure for sample preparation, inoculation, testing, and interpretation.

QUALITY CONTROL
Each lot number of Nutrient Broth has been manufactured, packaged, and processed in accordance with current Good Manufacturing Practice regulations. All lot numbers have been tested using the following quality control organisms and have been found to be acceptable. 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.

CONTROL	INCUBATION	RESULTS
Bacillus subtilis ATCC® 6633	Ambient, 18-24 h @ 33-37°C	Growth
Escherichia coli ATCC® 25922	Ambient, 18-24 h @ 33-37°C	Growth
Pseudomonas aeruginosa ATCC® 27853	Ambient, 18-24 h @ 33-37°C	Growth
Staphylococcus aureus ATCC® 25923	Ambient, 18-24 h @ 33-37°C	Growth

BIBLIOGRAPHY

1. American Public Health Association. 1917. Standard Methods of Water Analysis. 3rd ed. APHA, Washington, D.C.
2. Eaton, A.D., L.S. Clesceri, E.W. Rice, and A.E. Greenberg. 2005. Standard Methods for the Examination of Water and Wastewater. 21st ed. APHA, Washington, D.C.
3. Downes, F.P. and K. Ito. 2001. Compendium of Methods for the Microbiological Examination of Foods. 4th ed. APHA, Washington, D.C.
4. Food and Drug Administration. 2000. Bacteriological Analytical Manual Online. AOAC International, Gaithersburg, MD.

Refer to the front of Remel *Technical Manual of Microbiological Media* for **General Information** regarding precautions, product storage and deterioration, sample collection, storage and transportation, materials required, quality control, and limitations.

ATCC® is a registered trademark of American Type Culture Collection.

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