

## Nutrient Broth

### Intended Use

Nutrient Broth is a general-purpose medium for cultivation of bacteria.

### Summary

Nutrient Broth is a basic non-selective culture medium used for the routine cultivation of microorganisms. Nutrient Broth can be used for the cultivation of more exacting bacteria by incorporating biological fluids like horse or sheep blood, serum, ascitic fluid, egg yolk, etc.

### Principle

Peptone, beef extract and yeast extract provide water-soluble substances including carbohydrates, vitamins, organic nitrogen compounds and salts.

### Formula\*

Ingredients	g/L
Peptone	5.0
Sodium Chloride	5.0
Beef Extract	1.5
Yeast Extract	1.5
Final pH (at 25°C)	7.4 ± 0.2

\*Adjusted to suit performance parameters.

### Directions

1. Bring the Nutrient Broth vial to the room temperature 22°C-30°C.
2. Use Nutrient Broth as per required application.

### Quality Control

**Appearance:** Light yellow coloured, clear solution without any precipitate.

**Cultural Response:** Cultural characteristics observed after an incubation of 18-24 hours at 30°C-35°C.

Organism (ATCC)	Growth
<i>Escherichia coli</i> (25922)	Good
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> (25923)	Good
<i>Pseudomonas aeruginosa</i> Strain Boston 41501 (27853)	Good
<i>Streptococcus pyogenes</i> Strain Bruno (19615)	Good

**Note:** Inoculum cfu for good growth is 10 -100.

### Remarks

1. Do not use media bottles that exhibit any damage, cracks, microbial contamination, discolouration, drying or any other sign of deterioration.
2. Good laboratory practices and hazard precautions must be observed at all times.
3. After use media containers, sample, sample containers and other contaminated materials must be sterilized or incinerated before discarding.
4. All autoclaved biohazards should be disposed off in accordance with state and local environmental regulations.
5. Only qualified personnel who have been trained in microbiological procedures should handle all infected specimens and inoculated culture media.
6. User should ensure that any machinery or apparatus used and by chance contaminated must be safely disinfected or sterilized. The environment in which microbiological cultures are handled must also be taken into account.

### Storage and Stability

1. Store the ready to use Nutrient Broth at 15°C-25°C in a cool, dry place away from light.
2. Stability of the kit is as per expiry date mentioned on the label.

### Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

### References

1. US Food and Drug Adm; 1998, Bacteriological Analytical Manual, 8<sup>th</sup> Ed; Rev. A, AOAC, International, Gaithersburg, Md.
2. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

### Product Presentation:

Cat. No.	Product Description	Pack Size
203140160005	Ready Prepared Tube	50 x 5 mL

### Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.

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