# Nutrient Broth VEG

## Intended Use
Nutrient Broth VEG is used as a general-purpose medium for the cultivation of wide range of bacteria.

## Summary
Nutrient media are basic culture media used for maintaining microorganisms, cultivating fastidious organisms by enriching with serum or blood and are also used for purity checking prior to biochemical or serological testing. Nutrient Broth VEG is also serves these purposes. It can be used for the cultivation and enumeration of bacteria which are not particularly fastidious. Addition of different biological fluids such as horse or sheep blood, serum, egg yolk etc. makes it suitable for the cultivation of related fastidious organisms.

## Principle
Nutrient Broth VEG is a specially developed medium from vegetable peptones to avoid BSE/TSE risks associated with animal origin peptones, which meets identical requirement of routine Nutrient Broth prepared from animal-based peptones. Nutritional properties of soya peptone and VEG extract are comparable to peptic digest of animal tissue and beef extract respectively.

## Formula*

| **Ingredients** | **g/L** |
|---|---|
| Soya Peptone | 5.0 |
| Sodium Chloride | 5.0 |
| Veg Extract | 1.5 |
| Yeast Extract | 1.5 |
| Final pH (at 25°C) | 7.4 ± 0.2 |

*Adjusted to suit performance parameters.

## Storage and Stability
Store dehydrated medium below 30°C in tightly closed container and the prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

## Specimen Collection and Handling
Ensure that all samples are properly labelled. Follow appropriate techniques for handling samples as per established guidelines. Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure. The samples must be stored and tested within the permissible time duration. After use, contaminated materials must be sterilized by autoclaving before discarding.

## Directions
1. Suspend 13.00 g of powder in 1000 mL purified / distilled water.
2. Boil with frequent agitation to dissolve the powder completely.
3. Dispense as required.
4. Sterilize by autoclaving at 121°C (15 psi) for 15 minutes as per validated cycle.

## Quality Control
**Dehydrated Appearance**: Cream to yellow coloured, homogenous, free flowing powder.
**Prepared Appearance:** Light yellow to amber coloured, clear solution without any precipitate.
**Growth Promotion Test:** Growth promotion is carried out in accordance with the harmonized method of USP/EP/JP and growth is observed after an incubation at 30°C-35°C for 18 to 48 hours.
**Growth Promoting Properties:** The test results observed are within the specified temperature and shortest period of time specified in the test, inoculating ≤100 cfu of appropriate microorganism at 30°C-35°C for 18 hours.

| Organism (ATCC) | Growth |
|---|---|
| *Escherichia coli* (8739) | Good |
| *Staphylococcus aureus* subsp. *aureus* (6538) | Good |
| *Enterococcus faecalis* (29212) | Good |
| *Pseudomonas aeruginosa* (9027) | Good |
| *Bacillus spizizenii* (6633) | Good |

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

## Performance and Evaluation

Performance of the product is dependent on following parameters as per product label claim:

1. Directions
2. Storage
3. Expiry

## 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.

## Reference


1. Lapage S., Shelton J. and Mitchell T., 1970, 'Methods in Microbiology', Norris J. and Ribbons D. (Eds.), Vol. 3A., Academic Press, London.
2. MacFaddin J.F., 2000(ed), Biochemical Tests for Identification of Medical Bacteria, 3rd edition, Lippincott Williams and Wilkins, New York.
3. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.


## Product Presentation:

| Cat No. | Product description | Pack Size |
|---|---|---|
| 201140100500 | Dehydrated Culture Media | 500 g |