16336 Nutrient Broth No 3, Vegitone (Vegitone Nutrient Broth No 3)

Nutrient Broth No 3 Vegitone is used as a general culture medium which may be used as enrichment medium by incorporating 10% blood or other biological fluids. It is like Nutrient Broth No 3 but the animal derived products are replaced by plant equivalents.

Composition:

Ingredients	Grams/Litre
Peptone (vegetable)	5.0
Vegetable Extract	1.5
Yeast extract	1.5
Sodium chloride	5.0
Final pH 7.4 +/- 0.2 (at 25°C)	

Store prepared media below 8°C, protected from direct light. Store dehydrated powder, in a dry place, in tightly-sealed containers at 2-25°C.

Appearance: Yellow coloured, homogeneous, free flowing powder.
Colour and Clarity: Light amber coloured, clear solution without precipitate

Directions:
Suspend 13 g in 1000 ml distilled water. Boil to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle and Interpretation:
Nutrient media are basic culture media used for maintaining microorganisms (1), for purity checking prior to biochemical or serological testing. It is used for the cultivation and enumeration of bacteria which are not particularly fastidious. In semisolid form it is used for maintenance of control or standard organisms.
Nutrient Agar is ideal for demonstration and teaching purposes where a more prolonged survival of cultures, at ambient temperature is often required without risk of the overgrowth that can occur with more nutritious substrates. 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 (2).
Yeast extract, vegetable extract and peptone provide nitrogenous compounds, vitamins and amino acids and they act as well as carbon sources. The sodium chloride is for the osmotic balance.

Cultural characteristics after 18-48 hours at 35-37°C.

Organisms (ATCC)	Growth
Escherichia coli (25922)	+++
Pseudomonas aeruginosa (27853)	+++
Staphylococcus aureus (25923)	+++
Streptococcus pyogenes (19615)	+++

References:

1. S. Lapage, J. Shelton, T. Mitchell, 'Methods in Microbiology', Norris J. and Ribbons D. (Eds.), Vol. 3A., Academic Press, London (1970)
2. J. MacFaddin, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore (1985)

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.