

## 70122 Nutrient Broth No 1 (Standard I Nutrient Broth)

Suitable for the growth of more fastidious bacteria. Nutrient Broth No 1 is used for the enumeration and enrichment of bacteria.

### Composition:

Ingredients	Grams/Litre
Peptone	15.0
Yeast extract	3.0
Sodium chloride	6.0
D(+)-Glucose	1.0
Final pH 7.5 +/- 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.

### Directions:

Dissolve 25 g in 1 litre distilled water and fill into tubes. Sterilize by autoclaving at 121°C for 15 minutes.

### Principle and Interpretation:

This medium is a standard medium for a broad range of bacteria. With the addition of blood, ascites fluid or serum they can also be used to cultivate streptococci, pneumococci and erysipelas species etc. Nutrient Broth No 1 is also used as a base for preparing special culture media.

Peptone and yeast extract provide nitrogenous compounds, vitamin B complex, amino acids and other essential growth nutrients. Sodium chloride is used to maintain the osmotic balance and glucose is the fermentable carbohydrate source of the media.

Cultural characteristics after 24-48 hours at 35°C.

Organisms (ATCC)	Growth
<i>Brucella abortus</i> (4315)	+++
<i>Streptococcus pyrogenes</i> (19615)	+++
<i>Streptococcus pneumoniae</i> (6303)	+++
<i>Staphylococcus aureus</i> (25923)	+++
<i>Escherichia coli</i> (25922)	+++
<i>Listeria monocytogenes</i> (19111)	+++
<i>Erysipelothrix rhusiopathiae</i> (19414)	+++

### 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.

