

## Super Broth, Granulated

GM1316

Super Broth, granulated is used for the mass cultivation of *Escherichia coli*.

### Composition\*\*

Ingredients	Gms / Litre
Casein enzymic hydrolysate	35.000
Yeast extract	20.000
Sodium chloride	5.000

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 60 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense in tubes or flasks as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

### Principle And Interpretation

*Escherichia coli* is a bacterium that is commonly found in the gut of humans and warm-blooded animals. Most strains of *E. coli* are harmless. Some strains however, such as Enterohaemorrhagic *E. coli* (EHEC) can cause severe foodborne disease. Super Broth has a formulation slightly different from that described by Atlas (1) and it is used for the mass cultivation of *E. coli*.

Casein enzymic hydrolysate and yeast extract provide nitrogenous compounds, vitamin B complex and other essential growth nutrients. Sodium chloride maintains osmotic equilibrium. Super Broth is nutritionally rich hence other organisms can also grow in it easily.

### Quality Control

#### Appearance

Cream to yellow coloured granular medium

#### Colour and Clarity of prepared medium

Light yellow coloured clear solution without any precipitate

#### Cultural Response

M1316: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth
<b>Cultural Response</b>		
<i>Escherichia coli</i> ATCC 23724	50-100	good-luxuriant
<i>Escherichia coli</i> ATCC 25922	50-100	good-luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	50-100	good-luxuriant

### Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

### Reference

1. Atlas R.M., 2004, Handbook of Microbiological Media, Parks L.C. (Ed.), CRC Press, Inc

**Disclaimer :**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.