



Super Broth

M1316

Super Broth 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 as desired and 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 homogeneous free flowing powder

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
Cultural Response		
<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

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Disclaimer :

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