



## Universal Fastidious Culture Broth

M1818

Universal Fastidious Culture Broth is recommended for the cultivation of fastidious microorganisms when enriched with blood.

### Composition\*\*

Ingredients	Gms / Litre
Casein peptone	7.000
Meat peptone	5.000
Gelatine peptone	5.000
Yeast extract	3.000
Sodium chloride	5.000
Final pH ( at 25°C)	7.2±0.2

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

### Directions

Suspend 25 grams in 1000ml 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

Universal Fastidious Culture Broth is a basic culture media for cultivation of fastidious organisms. It is non-selective media useful in routine cultivation of microorganisms. 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.

Casein peptone, Meat peptone, gelatin peptone and yeast extract provide the necessary nitrogen compounds, carbon, vitamins and also some trace ingredients necessary for the growth of bacteria. Sodium chloride maintains the osmotic equilibrium of the medium.

### Quality Control

#### Appearance

Cream to yellow homogeneous free flowing powder

#### Colour and Clarity of prepared medium

Light yellow coloured clear to slightly opalescent solution

#### pH

7.00-7.40

#### Cultural response

Cultural characteristics was observed after an incubation at 30-35°C for 18-48 hours.

#### Cultural Response

Organism	Inoculum (CFU)	Growth
<b>Cultural response</b>		
<i>Streptococcus pyogenes</i> ATCC 19615	50 -100	luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	50 -100	luxuriant
<i>Escherichia coli</i> ATCC 25922	50 -100	luxuriant
<i>Enterococcus faecalis</i> ATCC 29212	50 -100	luxuriant

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<i>Pseudomonas aeruginosa</i> ATCC 27853	50 -100	luxuriant
<i>Shigella flexneri</i> ATCC 12022	50 -100	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.

Revision : 02 / 2015

#### Disclaimer :

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