



Dehydrated Culture Media  
Bases / Media Supplements

## Technical Information

### Hottinger Broth

**Product Code: DM 2425**

**Application:** - Hottinger Broth is used for the cultivation of less fastidious microorganisms and determination of indole in accordance with USSR State Pharmacopoeia.

### Composition\*\*

Ingredients	Gms / Litre
Fish peptone	20.000
Yeast extract	2.000
Tryptophan	1.000
Final pH (at 25°C)	7.4±0.2

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

### Principle & Interpretation

Hottinger Broth is used for cultivation of less fastidious microorganisms and determination of indole as per USSR State Pharmacopoeia <sup>(1)</sup>.

Fish peptone and yeast extract provides the nitrogenous source and essential nutrients for growth of organisms. The production of indole from tryptophan is a diagnostic test used for identifying enteric bacteria. After incubation, indole can be identified by a red dye complex reaction with one of several reagents eg. Kovac's Reagent <sup>(2)</sup>

### Methodology

Suspend 23.0 grams of powder media in 1000 ml distilled water. Shake well & heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

### Quality Control

#### Physical Appearance

Cream to yellow homogeneous free flowing powder.

#### Colour and Clarity of prepared medium

Light amber coloured clear solution.

#### Reaction

Reaction of 2.3% w/v aqueous solution at 25°C. pH: 7.4±0.2.

**pH Range** 7.20-7.60

#### Cultural Response/ characteristics

**DM 2425:** Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.





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Organism	Growth production Cultural	Indole Response
<i>Escherichia coli</i> ATCC 25922	good	Positive reaction, red ring at the interface of the medium
<i>Pseudomonas aeruginosa</i> ATCC 27853	good	Negative reaction, no colour development cloudy ring
<i>Staphylococcus aureus</i> ATCC 25923	Good	Negative reaction, no colour development cloudy ring
<i>Streptococcus pyogenes</i> ATCC 19615	Good	Negative reaction, no colour development cloudy ring

## Storage and Shelf Life

**Dried Media:** Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

**Prepared Media:** 2-8° in sealable plastic bags for 2-5 days.

## Further Reading

1. State Pharmacopoeia of USSR.
2. Harrigar W.F and McCarran M.E (1966) Laboratory Methods in Microbiology Academic Press 53.

## Disclaimer :

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