

## Technical Information

### Taurocholate Broth

**Product Code: DM 1045**

**Application:** Taurocholate Broth is useful for selective isolation of coliforms from water, milk and other food products.

### Composition\*\*

Ingredients	Gms / Litre
Casein enzymic hydrolysate	8.000
Peptic digest of animal tissue	12.000
Lactose	10.000
Sodium taurocholate	5.000
Sodium chloride	5.000
Neutral red	0.030
Crystal violet	0.0001
Final pH (at 25°C)	7.4±0.2

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

### Principle & Interpretation

Taurocholate broth selectively supports growth of gram-negative coliforms from water, milk and other similar food products. The selective action of this medium is due to crystal violet and sodium taurocholate which inhibits the growth of most of the most species of grampositive bacteria. Lactose is a fermentable carbohydrate. Neutral red is the indicator dye in the media. Lactose fermenters acquire pinkish red colour due to production of acid. Sodium chloride maintains the osmotic balance at the medium.

### Methodology

Suspend 40.0 grams of powder media in 1000 ml distilled water. Shake well & heat to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

### Quality Control

#### Physical Appearance

Light yellow to pink coloured homogeneous free flowing powder

#### Colour and Clarity of prepared medium

Red coloured clear solution without any precipitate

#### Reaction

Reaction of 4.0% w/v aqueous solution at 25°C. pH : 7.4±0.2

**pH Range:** 7.2-7.6

#### Cultural Response/Characteristics

DM 1045: Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.

Organism	Inoculum (CFU)	Growth
<i>Enterobacter aerogenes</i> ATCC 13048	50-100	luxuriant
<i>Escherichia coli</i> ATCC 25922	50-100	luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	>=10 <sup>8</sup>	luxuriant



Dehydrated Culture Media  
Bases / Media Supplements

## 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<sup>0</sup> in sealable plastic bags for 2-5 days.

## Further Reading

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## Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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