

## Tryptic Bile Agar

Selective medium for detection and enumeration of *E. coli* and coliform bacteria in water.

TYPICAL FORMULA	(g/l)
Tryptone	20.0
Bile Salt No. 3	1.5
Agar	15.0
Final pH 7.2 ± 0.2 at 25°C	

### DESCRIPTION

Tryptic Bile Agar is a selective medium used for isolating and enumerating *Escherichia coli* and coliform bacteria from water samples.

### PRINCIPLE

Tryptone provides amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Bile salts inhibit the growth of Gram-positive bacteria. Agar is the solidifying agent.

### PREPARATION

Suspend 37.0 g of powder in 1 liter of deionized or distilled water. Bring to boil and shake until completely dissolved. Mix well. Sterilize in autoclave at 121°C for 15 minutes. Cool up to 45-50°C. Pour in Petri dishes.

### TECHNIQUE

Filter the water sample through a filter membrane (0.45 µm pore diameter) and transfer the membrane onto the agar surface. Incubate aerobically at 36 ± 2°C for 21 ± 3 h. Incubation at 44 ± 0.5°C may overcome the problem of background growth.

### INTERPRETATION OF RESULTS

Examine the membrane for microbial growth.

### STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared plates at 2-8°C away from light.

### WARNING AND PRECAUTIONS

**For professional use only.** Operators must be trained and have certain experience in the laboratory methods. Please read the instructions carefully before using this product. Reliability of assay results cannot be guaranteed if there are any deviations from the instructions in this document.

Consult the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices.

### DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

### REFERENCES

- ISO 9308-1:2000 Water quality — Detection and enumeration of *Escherichia coli* and coliform bacteria — Part 1: Membrane filtration method.



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## PRODUCT SPECIFICATIONS

### NAME

Tryptic Bile Agar

### PRESENTATION

Dehydrated medium

### STORAGE

10-30°C

### PACKAGING

Ref.	Content	Packaging
610196	500 g	500 g of powder in plastic bottle
620196	100 g	100 g of powder in plastic bottle

### pH OF THE MEDIUM

7.2 ± 0.2

### USE

Tryptic Bile Agar is a selective medium used for detection and enumeration of *E. coli* and coliform bacteria

### TECHNIQUE

Refer to technical sheet of the product

### APPEARANCE OF THE MEDIUM

#### Powder medium

Appearance: free-flowing, homogeneous

Colour: beige

#### Ready-to-use medium

Appearance: slightly opalescent

Colour: light amber

### SHELF LIFE

4 years

### QUALITY CONTROL

- Control of general characteristics, label and print
- Microbiological control  
Inoculum for productivity: 50-100 CFU  
Inoculum for selectivity: 10<sup>4</sup>-10<sup>6</sup> CFU  
Incubation Conditions: 18-24 h at 36 ± 2°C, in aerobiosis

#### Microorganism

*Escherichia coli*

ATCC® 25922

#### Growth







Good

*Enterococcus faecalis*

ATCC® 29212

Inhibited

### TABLE OF SYMBOLS

<b>LOT</b>	Batch code	 Consult instructions for use	 Manufacturer	 Use by
<b>REF</b>	Catalogue number	 Temperature limitation	 Contains sufficient for <n> tests	 Keep away from sunlight



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