



Tryptone Water

Liquid medium for detection of *E. coli* in clinical specimens, food and water samples, according to ISO 7251 and ISO 3811.

DESCRIPTION

Tryptone Water is a liquid medium used for the differentiation of microorganisms based on indole production. This medium is recommended by ISO 7251 and ISO 3811 for the presumptive identification and enumeration of *Escherichia coli* in food and by the APHA for examination of water and wastewater.

TYPICAL FORMULA

	(g/l)
Enzymatic Digest of Casein	10.0
Sodium Chloride	5.0
Final pH 7.3 ± 0.2 at 25°C	

METHOD PRINCIPLE

Enzymatic digest of casein provides amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. The high tryptophan content allows detection of indole formation. Sodium chloride maintains the osmotic balance of the medium.

PREPARATION

Dehydrated medium Suspend 15 g of the powder in 1 liter of distilled or deionized water. Mix well. Heat to boil shaking frequently until completely dissolved. Sterilize in autoclave at 121°C for 15 minutes.

TEST PROCEDURE

Inoculate the tubes with pure cultures of the microorganisms to be tested.
Incubate at 35 ± 2°C for 18-24 hours.

INTERPRETING RESULTS

Add 2-3 drops of Kovac's Reagent (ref. 80271 or 87001) to each tube. The formation of a red to purple color ("cherry-red ring") in the reagent layer on top of the medium indicates a positive reaction for indole production. A negative reaction shows no color change.

APPEARANCE

Dehydrated medium: free-flowing, homogeneous, white to light beige.
Prepared medium: clear to slightly opalescent, light amber.

STORAGE

The powder is very hygroscopic, store the powder at 10-30°C, in a dry environment, in its original container tightly closed. Store bottles and tubes at 10-25°C away from light. Do not use the product beyond its expiry date on the label or if product shows any evidence of contamination or any sign of deterioration.

SHELF LIFE

Dehydrated medium: 4 years.
Medium in bottles: 3 years.
Medium in tubes: 2 years.

QUALITY CONTROL

Tubes are inoculated with the microbial strains indicated in the QC table.

Inoculum for productivity: ≤ 100 CFU

Incubation conditions: aerobically at $35 \pm 2^\circ\text{C}$ for 18-24 hours.

QC Table.

Microorganism		Growth	Indole Test
<i>Escherichia coli</i>	ATCC® 25922	Good	Positive
<i>Enterobacter cloacae</i>	ATCC® 13047	Good	Negative

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is intended for *In vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL OF WASTE

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








BIBLIOGRAPHY

1. ISO 7251:2005. Microbiology of food and animal feeding stuffs - Horizontal method for the detection and enumeration of presumptive *Escherichia coli* - Most probable number technique.
2. ISO 3811:1979. Meat and meat products - Detection and enumeration of presumptive coliform bacteria and presumptive *Escherichia coli*.
3. American Public Health Association, American Water Works Association, Water pollution Control Federation (1998): Standard Methods for the Examination of Water and Wastewater, 20th ed., Washington.

PRESENTATION

PRESENTATION		Contents	Ref.
Tryptone Water	Tubes	20 x 10 ml tubes	24136
Tryptone Water	Bottles	6 x 100 ml bottles	401980
Tryptone Water	Dehydrated medium	500 g of powder	610206
Tryptone Water	Dehydrated medium	100 g of powder	620206

TABLE OF SYMBOLS

LOT Batch code	IVD <i>In vitro</i> Diagnostic Medical Device	 Manufacturer	 Use by	 Fragile, handle with care
REF Catalogue number	 Temperature limitation	 Contains sufficient for <n> tests	 Caution, consult Instruction For Use	 Do not reuse



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