

## PEPTONE-TRYPTONE WATER

Powdered and ready to use liquid medium  
for the production of indole by microorganisms

**TYPICAL FORMULA (g/l)**

Tryptone	10
Sodium Chloride	5

**DIRECTIONS FOR POWDERD MEDIUM**

Suspend 15g in 1000ml of cold distilled water. Mix well to dissolve the liquid medium, distribute into final containers and sterilise at 121°C for 15 minutes.

Final pH 7.3 ± 0.2

**DESCRIPTION**

Peptone-Tryptone Water is recommended for the detection of indole production by microorganisms, especially *Enterobacteriaceae*, because of its high content of tryptophan. The formulation meets the requirement of Tryptone Water recommended by ISO 7251.

Organisms possessing the enzyme tryptophanase degrade the tryptophan to produce indole and other metabolic products. The indole production can be determined by the production of a red-violet colour complex upon application of Kovacs Reagent (cat. No.19171000). If present, indole reacts with the aldehyde group of p-dimethyleminobenzaldehyde with the development of a red-violet colour.

**TECHNIQUE**

Inoculate a tube containing 5ml of Peptone Tryptone Water and incubate at 37°C for 24 +/- 3 hours. Incubation at 44°C for 24 hours is advisable for detecting indole production in the confirmation test for faecal coliforms or *E.coli*. After incubation add 1ml of Kovacs Reagent. The formation of a red-violet ring indicates a positive reaction. A yellow-brown ring indicates a negative reaction.

**User quality assurance (37°C-24hrs)**

Indole positive control

*E.coli* ATCC 25922

Indole negative control

*K.pneumoniae* ATCC 23357

**STORAGE**

Dehydrated medium: 10-30°C

User prepared tubes or flasks: 3 months at 2-8°C

Ready to use tubes and flasks: 2-8°C

**REFERENCES**

- ISO 7251. Microbiology-General Guidance for enumeration of *E. coli* - Most Probable Number Technique. 1993-12-15
- Mackenzie, E.F.W., Taylor, E.W. & Gilbert. W.E. (1948) J. Gen. Microbiol., 2, 197.

**PACKAGING**

4018912	Peptone Tryptone Water	500g (33.3 l)
4018914	Peptone Tryptone Water	5kg (333 l)
551891	Peptone Tryptone Water	20 x 9 ml ready to use tubes
5118912	Peptone Tryptone Water	6 x 100ml ready to use flasks