



## Product :

TRYPTONE WATER (PEPTONE WATER)

**Specification**

Substrate with low nutrient capacity, for the detection of indol production in coliform microorganisms according to ISO 7251 standard.

**Formula \* in g/L**

Casein peptone..... 10,0  
Sodium chloride..... 5,0

Final pH 7.3 ±0,2 at 25 °C

\* Adjusted and /or supplemented as required to meet performance criteria

**Directions**

Dissolve 15 g of powder in 1 L of distilled water and dispense into suitable containers. Sterilize in the autoclave at 121°C for 15 minutes.

**Description**

The standard protocol requires that one loop from each suspected tube is inoculated into 5-10 mL of Tryptone Water.

Incubate for 48 hours at 44°C before investigating the indol production with Kovacs' Reagent for Indol.

As an alternative method, Ehrlich's Reagent can also show indol production. After 48 hours of incubation at 37°C, take 0,5 mL of growth and mix it with 0,5 mL of Ehrlich's Reagent. Let them settle a few minutes. A pink colour indicates a positive test. Colour appearance is accelerated if a few drops of a saturated solution of potassium per-sulfate is added. Other authors prefer extraction and concentration of indol with 1 mL of Ether prior to addition of reagent.

**Quality control**

**Incubation temperature:** 44°C ± 0,5

**Incubation time:** 48h ±2 h

**Inoculum:** ≥ 10<sup>8</sup> CFU (specificity) according to ISO 11133:2014/Amd 1:2018 & Adm 2:2021. Add Kovacs Reagent after growth

**Microorganism**

*Salmonella typhimurium* ATCC® 14028

*Escherichia coli* ATCC® 8739

*Escherichia coli* ATCC® 25922

*Proteus hauseri* ATCC® 13315

**Growth**

Good

Good

Good

Good

**Remarks**

Indol (-)

Indol (+)

Indol (+)

Indol (+) 37°C / No growth 44°C



Left: Uninoculated tube (Control)  
Center: *S. typhimurium* ATCC 14028  
Right: *Escherichia coli* ATCC 25922



Left: Uninoculated tube (Control)  
Center: *S. typhimurium* ATCC 14028  
Right: *Escherichia coli* ATCC 25922

**References**

- APHA-AWWA-WEF (1998) Standard Methods for the examination of water and wastewater. 20th ed. APHA. Washington. DC.
- ATLAS, R.M. & L.C. PARKS (1993) Handbook of Microbiological Media. CRC Press Inc. London.
- DOWNES, F.P. & K. ITO (2001) Compendium of Methods for the Microbiological Examination of Food. 4th ed. APHA. Washington.
- ISO 7251 Standard (2005) Microbiology of food and animal feeding stuffs - Horizontal method for the detection and enumeration of presumptive *Escherichia coli* - Most Probable Number Technique.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.



Reference : 03-156

*Scharlau Microbiology* - Technical data sheet

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#### **Storage**

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).

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