Condalab

Reference: 5160 **Technical Data Sheet**

Product: **PEPTONE WATER (TRYPTONE WATER)**

CE IVD

Specification

Substrate for dilution and non-selective enrichments in microbiology and for the research of indole production in coliforms formulated according to ISO 7251 standard.

Presentation

	Packaging Details	Shelf Life	Storage
10 Prepared bottle Bottle 125 ml with: 100 ± 3 ml	1 box with 10 bottles 125 ml. Injectable cap: Plastic screw inner cap. The use of syringes needles with a diameter greater than 0.8 mm is not recommended.	16 months	8-25°C

Composition

Composition (g/l):
Peptone from casein (Tryptone).....10.0
Sodium chloride.....5.00

Description /Technique

Descrption:
Diluent and non-selective pre-enrichment medium that has the property of revitalization of the peptone water.
Inoculate according to final purpose, samples and validated methods.
This media is also ideal for determination of the indole test on samples suspected to be contaminated Enterobacteriaceae.

Technique
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

Physical/Chemical control

Color : Yellowish pH: 7.2 ± 0.2 at 25°C

Microbiological control

Prepare Tubes - Inoculate 10^2-10^4 CFU (Specificity)3
Aerobiosis. Incubation at 44 °C± 0,5. Reading at 48h ± 2h.

Microorganism	Growth
Escherichia coli ATCC® *25922, WDCM 00013*	Good - Positive Indole
Proteus hauseri ATCC® *13315*	Good - Positive Indole
Salmonella typhimurium ATCC® *14028, WDCM 00031*	Good- Negative Indol
Escherichia coli ATCC® *8739, WDCM 00012*	Good - Positive Indole
Proteus hauseri ATCC® *13315 (44°C)*	Inhibited

Sterility Control

Incubation 48 hours at 30-35°C and 48 hours at 20-25°C: NO GROWTH
Check at 7 days after incubation in same conditions

Bibliography

· 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.