

Reference: 4201

Technical Data Sheet

CEIVD

Product: PEPTONE WATER (TRYPTONE WATER)

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

20 Tubes Tube 16 x 113 mm with: 10 ± 0.2 ml

Packaging Details

Shelf Life

Storage

1 box with 20 tubes, 16x113 mm glass tubes, ink labelled and metal-Non injectable cap.

12 months

8-25°C

Composition

Composition (g/l):

Peptone from casein (Tryptone).....10.0

Description / Technique

Descrption:

The culture medium contains tryptone with sufficient amount of tryptophan to determine the indole test.

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

Inoculate with 10³ - 10⁴ UFC for qualitative assay.

Aerobiosis. Incubation at 44 °C± 0,5. Reading at 48h ± 2h.

Microorganism Growth

Escherichia coli ATCC® 25922, WDCM 00013 Escherichia coli ATCC® 8739, WDCM 00012 Salmonella typhimurium ATCC® 14028, WDCM 00031

Proteus hauseri ATCC® 13315 (37°C) Proteus hauseri ATCC® 13315 (44°C)

Good - Positive Indole Good - Positive Indole Good-Negative Indol Good - Positive Indole

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

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- · DOWNES, F.P. & K. ITO (2001) Compendium of Methods for the Microbiological Examination of Food. 4th ed. APHA. Washington.
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- . ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.

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