

PRODUCT CODE: 466106

Tryptone Yeast Extract Agar (ISO 6222:1999) (Prepared Tubes) for microbiology

Specification

Solid medium used for the enumeration of water microorganisms according to ISO standards.

Presentation

20 Tubes	Packaging Details	Shelf life	Storage
Tube 17 x 145 mm with: 15 ± 1 ml.	17x145 mm glass tubes, ink labelled. Metal-Non injectable cap. 20 tubes per box .	12 months	8-25°C

Description and Technique

Description

This medium, formulated according to ISO Standard 6222 and others is for the enumeration of heterotrophic microorganisms from water.

Technique

Melt the culture medium and pouring into sterile plates. Using a water sample obtained according to the ISO Standard 5667-2 and 5667-3, make a decimal dilution series (see ISO Standard 6887) using 1/4 Ringer Solution and take aliquots to 2 parallel series of plates.

Pour the sterilized Tryptone Yeast Extract Agar cooled to 45°C, and homogenize with the sample (see ISO Standard 8199).

Once solidified, incubate one of the series at 36 ± 2°C for 48 ± 2 hours and the other one at 22°C for 3 days (72 ± 4 hours). In order to achieve a good count, select plates with 30-300 colonies.

Express the results as number of colony forming units per millilitre (CFU/mL) of sample for each temperature of incubation.

If there are no colonies with the undiluted sample express the results as "none detected in one mL".

If there are more than 300 colonies in the highest dilution express the results as ">300 CFU/mL".

Quality control

Physical/Chemical control	Microbiological control	Sterility control
<p>Color: White pH: 7.2 ± 0.2 at 25°C</p>	<p>Melt Medium - Prepare Plates - Spiral Spreading: Practical range 100±20 CFU; Min. 50 CFU (Productivity)</p> <p>Reference medium : YEA (validated).</p> <p>Microbiological control according to ISO 11133:2014</p> <p>Aerobiosis. Incubation at 36 ± 2°C, reading at 44±4 h.</p>	<p>Incubation 48 hours at 30-35°C and 48 hours at 20-25°C: NO GROWTH</p> <p>Check at 7 days after incubation in same conditions</p>
Microorganism	Growth	
<i>Escherichia coli</i> ATCC® 25922, WDCM 00013	Good (≥70 %)	