

PRODUCT CODE: 446106

Tryptone Yeast Extract Agar (ISO 6222:1999) (Prepared Plate (@ 55 mm)) for microbiology

Specification

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

Presentation

30 Prepared plates	Packaging Details	Shelf life	Storage
55 mm Plates for filtration purposes with: 9 ± 1 ml.	1 box containing 5 plastic bags with 6 plates of 55 mm / bag	6 months	2-25°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

Collect, dilute and prepare samples and volumes to be filtered as required according to specifications, directives, official standard regulations and/or expected results.

Filter the sample through a $0.45 \mu\text{m}$ pore membrane and apply it onto the surface of the agar. Incubate the plates right side up aerobically at $36 \pm 2^\circ\text{C}$ for 44 ± 4 h. (Incubation times greater than those mentioned above or different incubation temperatures may be required depending on the sample, on the specifications, or normative ISO...)

After incubation, enumerate all the colonies on the surface of the membrane. Calculate total microbial count per ml of sample by multiplying the average number of colonies per membrane by the inverse dilution factor.

Report results as Colony Forming Unit (CFU's) per ml along with incubation time and temperature.

Quality control

Physical/Chemical control	Microbiological control	Sterility control
Color: Yellowish pH: 7.2 ± 0.2 at 25°C	Membrane Filtration; Practical range 100 ± 20 CFU; Min. 50 CFU (Productivity). Microbiological control according to ISO 11133:2014 Aerobiosis. Incubation at $36 \pm 2^\circ\text{C}$, reading at 44 ± 4 h.	Incubation 48 hours at $30\text{--}35^\circ\text{C}$ and 48 hours at $20\text{--}25^\circ\text{C}$: NO GROWTH Check at 7 days after incubation in same conditions

Microorganism	Growth
<i>Stph. aureus</i> ATCC® 25923, WDCM 00034	Good (≥70 %)
<i>Escherichia coli</i> ATCC® 25922, WDCM 00013	Good (≥70 %)
<i>Bacillus subtilis</i> ATCC® 6633, WDCM 00003	Good (≥70 %)
<i>Ps. aeruginosa</i> ATCC® 27853, WDCM 00025	Good (≥70 %)
<i>Escherichia coli</i> ATCC® 8739, WDCM 00012	Good (≥70 %)

JM/MdR190704