

PRODUCT CODE: 445463

m-CP Agar (Prepared Plate (@ 55 mm)) for microbiology

Specification

Solid medium for the enumeration and isolation of *Clostridium perfringens* in water according to the European Directive 12767/97.

Presentation

12 Prepared Plates	Packaging Details	Shelf life	Storage
55 mm Plates for filtration purposes with: with: 9 ± 2 ml.	1 box with 2 blisters (base of aluminium, PVDC and one cellophane bag) with 6 plates 55 mm/blister.	3 months	2-14°C
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	3 months	2-14°C

Description and Technique

Description

The m-CP Agar Base is a solid medium for counting and isolating vegetative cells and spores of *Clostridium perfringens* by the membrane filtration method. Its use is compulsory in determining the quality of water for human consumption according to the European Union by Directive 12767 (12-07-1997) of the European Council.

Technique

For both presentations:

A suitable volume of water is filtered through a membrane filter of 47 mm diameter and 0,45 µm pore.

The membrane is then placed on the surface of freshly prepared m-CP medium and incubated in an anaerobic atmosphere at $44 \pm 1^\circ\text{C}$ for 21 ± 3 hours.

Expose the growth obtained to ammonium hydroxide vapours for 20-30 seconds.

Count as *Clostridium perfringens* all the opaque yellow colonies that turn pink or red after ammonium hydroxide exposure. Express the results as CFU/mL.

Quality control

For both presentations:

Physical/Chemical control	Microbiological control	Sterility control
Color: Violet. pH: 7.6 ± 0.2 at 25°C	Membrane Filtration /Practical range 100±20 CFU; Min. 50 CFU (Productivity)./10 ⁴ -10 ⁶ CFU for Selectivity. Microbiological control according to ISO 11133:2014 Anaerobiosis. Incubation at 44 ± 1°C during 20 -24 h	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

Microorganism	Growth
<i>Escherichia coli</i> ATCC® 25922, WDCM 00013	Inhibited
<i>Clostridium perfringens</i> ATCC® 13124, WDCM 00007	Good - opaque yellowish colonies
<i>Clostridium perfringens</i> ATCC® 10543, WDCM 00174	Good - opaque yellowish colonies
<i>Clostridium bifermentans</i> NCTC® 506	Good -Blue colonies

JM/MdR190704