

m-CP AGAR

Ready to use 55 mm plates for the enumeration
of *Clostridium perfringens* in water samples.

TYPICAL FORMULA (G/L)

Tryptose	30.0
Yeast Extract	20.0
Sucrose	5.0
L-Cysteine HCl	1.0
Magnesium sulphate. 7H ₂ O	0.1
Agar	13.2
Bromocresol purple	0.04
Polymyxin B sulphate	25 mg (210,000 IU)
D-Cycloserine	400 mg
Fenophthalein diphosphate	100 mg
Ferric chloride	90 mg
Indoxyl β-D glucoside	60 mg

DESCRIPTION

m-CP Agar Base supplemented as reported above is a selective and chromogenic medium for the presumptive identification of *Clostridium perfringens* from water samples. The medium was described by Bisson and Cabelli for the rapid enumeration of *Cl. perfringens* from a variety of water samples (seawater, potable water and sewage) and is recommended in European Council Directive 98/83/EC for testing the quality of water intended for human consumption.

TECHNIQUE

Filter the water sample using a 0.45 µm membrane, then place the filter onto the m-CP Medium. Incubate anaerobically for 21 ± 3 hours at 44 ± 1° C. Examine the plates for presumptive positive opaque yellow colonies that turn pink or red after exposure to ammonium hydroxide vapours for 20 to 30 seconds. On m-CP Medium typical colonies are as follow:

Microorganism	Colony characteristics	Sucrose	β -D-glucosidase	Phosphatase
<i>C. perfringens</i>	Opaque yellow, pink/red after exposure to ammonium hydroxide vapours	+	-	+
Other clostridia (<i>C. baratii</i> , <i>C. paraputrificum</i> , <i>C. tertium</i>)	Blue-green	+	+	
Other clostridia (<i>C. bifermentans</i> , <i>C. difficile</i> , <i>C. sporogenes</i>)	Purple	-	+ or -	
Altri clostridi	Opaque yellow, negative to exposure to ammonium hydroxide vapours	+	-	-

STORAGE

Ready to use plates 2-8°C

REFERENCES

- Bisson, J. W. and Cabelli, V. J. (1979) App. and Environ. Microb., **37**, 1, pp 55-88.
- Decreto Legislativo 2 febbraio 2001 n° 31: Attuazione della Direttiva 98/83/CE relative alla qualità delle acque destinate al consumo umano.
- E.U. (1998) 98/83/EC of Council of 3rd of November 1998 on the quality of water intended for human consumption. Off. J. Eur. Commun., L330, 32-54.

PACKAGING

491320 m-CP Agar

30 plates (55 mm for MF technique)