

OXOID QUALITY ASSURANCE

PRODUCT SPECIFICATION

PERFRINGENS AGAR (OPSP) (OXOID)

CM543

Formula

Tryptone	grams per litre	15.0
Yeast extract		5.0
Soya peptone		5.0
Liver extract		7.0
Ferric ammonium citrate		1.0
Sodium metabisulphite		1.0
Tris buffer		1.5
Agar		10.0

Directions

Suspend 22.8g in 500ml of distilled water. Bring gently to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 50°C and aseptically add the contents of 1 vial of Perfringens Agar (OPSP) Supplement A (SR0076) and Perfringens Agar (OPSP) Supplement B (SR0077) reconstituted as directed. Mix well and pour into sterile Petri dishes.

Physical Characteristics

Straw/green, free flowing powder
 Moisture level - less than 7%
 pH - 7.3 ± 0.2 at 25°C
 Clarity - passes test
 Gel strength - firm, comparable to 10g/litre of Agar

Bacteriological Tests Using Optimum Inoculum Dilution

Make up the medium according to the directions. Add the test organisms to the medium using the pour plate technique.

**Reactions after incubation at 37°C for 24 hours under anaerobic conditions
 (for details refer to Oxoid Manual - Atmosphere Generation Systems)**

Medium is challenged with 10-100 colony forming units.

<i>Clostridium perfringens</i>	ATCC 13124	2-4mm straw/black colonies, black centres
<i>Clostridium perfringens</i>	ATCC12916	2-4mm straw/black colonies, black centres
<i>Proteus mirabilis</i>	NCTC 10975	pinpoint to 0.5mm straw/colourless colonies
<i>Enterococcus faecalis</i>	ATCC 19433	pinpoint to 0.5mm straw colonies

Medium is challenged with 10^4 - 10^5 colony forming units.

Clostridium sporogenes ATCC 19404 no growth

Escherichia coli ATCC 25922 no growth

Enterobacter aerogenes ATCC 13048 no growth

Medium is challenged with 1×10^5 - 9.9×10^5 colony forming units.

Clostridium bifermentans ATCC 638 no growth