**Date:** 19/05/17 **Supersedes:** 29/05/14

# OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

## MacCONKEY AGAR No.2

#### CM0109

## **Typical Formula\***

Peptone	grams per litre	20.0
Lactose		10.0
Bile salts No.2		1.5
Sodium chloride		5.0
Neutral red		0.05
Crystal violet		0.001
Agar		15.0

\* adjusted as required to meet performance standards

#### Directions

Suspend 51.5g in 1 litre of distilled water. Bring to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 50°C. Mix well and pour into sterile Petri dishes.

### **Physical Characteristics**

Pink, free-flowing powder Colour on reconstitution - dark red Moisture level - less than 7% pH 7.2  $\pm$  0.2 at 25°C Clarity - clear Gel strength - firm, comparable to 15.0g/litre of agar

### Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Tryptone Soya Agar

## Reactions after incubation at 37°C for 24 hours

Medium is challenged with 10-100 colony-forming units

Escherichia coli	ATCC® 25922	1-3mm pink colonies
Salmonella typhimurium	ATCC® 14028	1-3mm straw colonies
Salmonella virchow	NCTC 5742	1-3mm straw colonies
Shigella boydii	NCTC 11462	1-4mm straw colonies
Shigella dysenteriae	NCTC 9721	0.25-1mm straw colonies
Pseudomonas aeruginosa	ATCC® 27853	1-4mm straw colonies
Proteus mirabilis	ATCC® 12453	1-3mm straw colonies, no swarming

A satisfactory result is represented by recovery of positive strains equal to or greater than 70% of the control medium.

Medium is challenged with 1E+04 to 1E+06 colony-forming units

Staphylococcus aureus	ATCC® 25923	No growth
Staphylococcus aureus	ATCC® 9144	No growth

Negative strains are inhibited.

## Reactions after incubation at 37°C for 48 hours

Medium is challenged with 10-100 colony-forming units

Enterococcus faecalis	ATCC® 19433	Pinpoint-1mm pink colonies, red centre
Enterococcus faecalis	ATCC® 29212	Pinpoint-1mm pink colonies, red centre

A satisfactory result is represented by recovery of positive strains equal to or greater than 70% of the control medium.