BT-SPEC-0189

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OXOID QUALITY ASSURANCE
PRODUCT SPECIFICATION

ORANGE SERUM AGAR CM0657

Typical Formula*

Tryptone	grams per litre	10.0
Yeast extract		3.0
Orange serum (equivalent solids)		3.5
Glucose		4.0
Di-potassium phosphate		2.5
Agar		14.0

* adjusted as required to meet performance standards

Directions

Suspend 37g 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 or hold at 45°C when using the pour plate technique.

Physical Characteristics

Straw, free-flowing powder
Colour on reconstitution - straw 2
Moisture level - less than 7%
pH 5.5 ± 0.2 at 25°C
Clarity - clear
Gel strength - firm, comparable to 14.0g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: MRS Agar

Reactions after incubation at 30°C for 24 hours

Medium is challenged with 10-100 colony-forming units

Inoculation using pour plate technique

Streptococcus lactis	ATCC® 19435	pinpoint-1mm straw colonies

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

Inoculation using surface plate technique

Leuconostoc mesenteroides	ATCC® 10830a	0.5-1mm straw convex ‘wet’ colonies

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

Reactions after incubation at 30°C for 48 hours

Inoculation using surface plate technique

Lactobacillus plantarum	ATCC® 8014	0.5mm-2mm straw colonies
Lactobacillus fermentum	ATCC® 9338	0.5mm-2mm straw colonies
Saccharomyces cerevisiae	ATCC® 9763	0.5mm-2mm straw colonies

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