

ThermoFisher S C I E N T I F I C	Document Owner Department: QC	BT-SPEC-0223
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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
R2A AGAR CM0906		

R2A AGAR

CM0906

Typical Formula*

Yeast extract	grams per litre	0.5
Proteose peptone		0.5
Casein hydrolysate		0.5
Glucose		0.5
Starch		0.5
Di-potassium phosphate		0.3
Magnesium sulphate		0.024
Sodium pyruvate		0.3
Agar		15.0

* adjusted as required to meet performance standards

Directions

Suspend 18.1 grams in 1 litre of distilled water. Bring to the boil to dissolve completely. Mix and sterilize by autoclaving at 121°C for 15 minutes.

Physical Characteristics

Light straw, free-flowing powder
 Colour on reconstitution - straw 1
 Moisture level - less than or equal to 9%
 pH 7.2 ± 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 48-72 hours

Medium is challenged with 10-100 colony-forming units

<i>Staphylococcus aureus</i>	ATCC® 6538	1-3mm straw/yellow colonies
<i>Escherichia coli</i>	ATCC® 8739	1-3mm white colonies
<i>Enterococcus faecalis</i>	ATCC® 29212	0.5-2mm white colonies
<i>Salmonella abony</i>	NCTC6017	1-3mm white colonies
<i>Pseudomonas aeruginosa</i>	ATCC® 9027	1-4mm white colonies
<i>Bacillus subtilis</i>	ATCC® 6633	1-4mm white colonies

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

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Physical Characteristics	Update to moisture level specification	Change control	BT-CC-1922
Entire Document	Update to new document format and correction of typographical/minor errors.	Change control	BT-CC-2263