

OXOID PRODUCT SPECIFICATION

M.R.S. AGAR

PO0231A

Typical Formula

	grams per litre
Peptone	10.0
'Lab-Lemco' powder	8.0
Yeast extract	4.0
Glucose	20.0
Sorbitan mono-oleate	1ml
Dipotassium hydrogen phosphate	2.0
Sodium acetate 3H ₂ O	5.0
Triammonium citrate	2.0
Magnesium sulphate 7H ₂ O	0.2
Manganese sulphate 4H ₂ O	0.05
Agar	10.0

Preparation

Suspend M.R.S. Agar (62grams / litre) in deionised water. Sterilise at 121°C for 15 minutes. Cool and aseptically dispense into Petri dishes. Label dishes, wrap and label pack.

Format

Ten 90mm plates wrapped in a single cellulose-based film wrap. Each plate is ink-jet printed with (abbreviated) product name, product code, lot number and expiry date.

Labels

Label gives details of product name, product code, recommended storage temperature, lot number and expiry date.

Physical Characteristics

Physical Tests

pH	6.2 ± 0.2
Colour	Straw
Clarity	Clear
Fill weight	19.5g ± 1.0g.

Packaging and presentation:

General appearance of packaging and label should be satisfactory. Label data should be correct.

Sterility Test

Macroscopic examination should show no evidence of microbial growth after incubation at 20-24°C and 30-34°C for 5 days.

Microbiological Tests Using Optimum Inoculum Dilution

**Results after incubation at 35-39°C for 36-48 hours under anaerobic conditions
(for details refer to Oxoid Manual-Atmosphere generation Systems)**

Positive control

Inoculum 10-100 colony forming units.

Lactobacillus acidophilus NCTC 1723 Pale straw colonies

Colony counts shall be equal to or greater than 50% of the control medium.

Negative control

Inoculum 10,000-100,000 colony forming units.

Staphylococcus aureus ATCC[®] 25923 No growth / cream colonies

Storage conditions

Store away from the light between 2-10°C.