

PRODUCT SPECIFICATION

OXOID MRS AGAR(DE MAN, ROGOSA, SHARPE)

BO0969T

Typical Formula*

	grams per litre
Peptone	10.0
'Lab-Lemco' powder	8.0
Yeast extract	4.0
Glucose	20.0
Sorbitan mono-oleate	1.0 ml
Di-potassium hydrogen phosphate	2.0
Sodium acetate.3H ₂ O	5.0
Tri-ammonium citrate	2.0
Magnesium sulphate.7H ₂ O	0.2
Manganese sulphate.4H ₂ O	0.05
Agar	10.0

*adjusted as required to meet performance standards

Preparation

Suspend MRS Agar (62.0 grams/ litre) in de-ionised water. Heat to dissolve. Cool and dispense 250ml into final containers, 300ml sirop bottles. Sterilise at 121°C for 15 minutes. When cooled, label each bottle and pack in units of 10 in labelled boxes.

Format

Ten sirop bottles with screw cap closures in a box.

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 5 – Amber 1
Clarity	Clear
Fill weight	250.0 - 254.0g

Packaging and presentation

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

Contamination Check

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

Microbiology is conducted after the agar has been melted by autoclaving at 100°C for 30 minutes, cooled to 45-50°C, then dispensed into Petri dishes and allowed to set.

Results after incubation at 35-39°C for 36 hours under anaerobic conditionsPositive controls

Inoculum 10-100 colony forming units

Lactobacillus acidophilus

ATCC® 832

Pale straw colonies

Colony counts shall be equal to or greater than 50% of the control medium (a previously accepted batch of MRS agar).

Results after incubation at 35-39°C for 36-48 hours under aerobic conditions

Negative controls

Inoculum 10,000-100,000 colony forming units

Staphylococcus aureus

ATCC® 25923

No growth / cream colonies

Storage conditions

Store away from light between 2-25°C.

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