

## PRODUCT SPECIFICATION

OXOID MRS AGAR(DE MAN, ROGOSA, SHARPE)

BO0969R

**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 <sub>2</sub> O	5.0
Triammonium citrate	2.0
Magnesium sulphate.7H <sub>2</sub> O	0.2
Manganese sulphate.4H <sub>2</sub> 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 200ml into final containers, 250ml 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**

pH	6.2 ± 0.2
Colour	Straw 5 – Amber 1
Clarity	Clear
Fill weight	200.0 – 204.0g

**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 conditions**Positive 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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