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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
MRS AGAR (DE MAN, ROGOSA, SHARPE) CM0361		

MRS AGAR (DE MAN, ROGOSA, SHARPE)

CM0361

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 (II) sulphate .4H ₂ O	0.05
Agar	10.0

* adjusted as required to meet performance standards

Directions

Suspend 62g in 1 litre of distilled water. Bring to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. Mix well and pour into sterile Petri dishes. Selectivity can be altered by pH adjustment.

Physical Characteristics

Dark straw, free-flowing powder
 Colour on reconstitution - straw 5-amber 1
 Moisture level - less than or equal to 7%
 pH - 6.2 ± 0.2 at 25°C
 Clarity - clear (hazy when hot)
 Gel strength - firm, comparable to 10.0g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: MRS Agar

Medium is challenged with 10-100 colony-forming units

Reactions after incubation at 30°C for 72 hours under microaerophilic conditions

<i>Lactobacillus sakei</i>	ATCC®15521	0.5-2mm pale straw colonies
<i>Lactobacillus gasseri</i>	ATCC®19992	0.5-2mm pale straw colonies
<i>Lactococcus lactis</i>	ATCC®19435	0.5-2mm pale straw colonies

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Pediococcus pentosaceus ATCC®33316 Pinpoint-3mm pale straw 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
Entire Document	Removal of Statement (ISO/CEN 11133-2 control strains are included in the test panel). Update to new format and the correction of typographical/minor errors. Addition of Control Media and Result Criteria. Correction of <i>Streptococcus lactis</i> to <i>Lactococcus lactis</i> .	Change control	BT-CC-2384