

**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 <sub>2</sub> O          | 5.0    |
| Tri-ammonium citrate                       | 2.0    |
| Magnesium sulphate .7H <sub>2</sub> O      | 0.2    |
| Manganese (II) sulphate .4H <sub>2</sub> 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 |

|  |                               |              |
|--|-------------------------------|--------------|
| <b>ThermoFisher</b><br>SCIENTIFIC                    | Document Owner Department: QC | BT-SPEC-0136 |
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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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| <b>OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION</b>                              |                               |              |
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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 |