

# Dehydrated Culture Media

**MRS  
BROTH  
(DE MAN,**

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## ROGOSA, SHARPE)

**Code:** CM0359

*A non-selective medium for profuse growth of 'lactic acid bacteria'.*

### Typical Formula\*

	gm/litre
Peptone	10.0
'Lab-Lemco' powder	8.0
Yeast extract	4.0
Glucose	20.0
Sorbitan mono-oleate	1 ml
Dipotassium 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
pH 6.2 ± 0.2 @ 25°C	

\* Adjusted as required to meet performance standards

### Directions

Add 52g to 1 litre of distilled water at approximately 60°C. Mix until completely dissolved. Dispense into final containers and sterilise by autoclaving at 121°C for 15 minutes.

### Description

MRS Broth may be used for tests in the identification of lactobacilli, such as temperature dependence, growth in 4% NaCl, growth in 0.4% Teepol, etc. as recommended by Sharpe, Fryer and Smith<sup>1</sup>.

### Storage conditions and Shelf life

Store the dehydrated medium at 10-30°C and use before the expiry date on the label.  
Store the prepared medium at 2-8°C.

### Appearance

Dehydrated medium: Dark straw powder  
Prepared medium: Amber coloured solution

### Quality control

#### Positive control:

*Lactobacillus gasseri* ATCC® 19992 \*

#### Negative control:

Uninoculated medium

#### Expected results

Turbid growth

No change

\* This organism is available as a Culti-Loop®

### Reference

1. Sharpe M. Elisabeth, Fryer T. F. and Smith D. G. (1966) 'Identification of the Lactic Acid Bacteria' in 'Identification Method for Microbiologists Part A' (Gibbs B. M. and Skinner F. A. eds.) London and New York, Academic Press. Pages 65-79.

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