

## MRS AGAR

A low selective medium for the isolation and cultivation of *Lactobacillus* spp. according to ISO 15214.

Dehydrated media	
Code number:	500 g: MRA20500, 5 kg: MRA25000
Packaging of 500 g:	500 g agar base + 80 ml supplement
Packaging of 5 kg:	5 kg agar base + 800 ml supplement
Appearance of agar base:	Yellowish, homogeneous hygroscopic powder
Appearance of supplement:	Yellowish, after shaking homogeneous turbid solution
pH before autoclaving (25 °C):	5,5 – 5,9

**Direction:** Suspend **63 g** in one litre of distilled water. Add **10 ml of MRS Supplement**. Mix well and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 115 °C for 15 minutes.

### Warning!

The medium is heat sensitive.

No further sterilisation is necessary or desirable.

To ensure the homogeneity shake well the supplement before use.

Prepared media	
Bottled media:	100 ml: MRA30100, 500 ml: MRA30500
Plated media:	55 mm: MRA50055, 90 mm: MRA50090
Colour:	Yellowish
pH (25 °C):	5,6 – 5,8

**Direction:** Dispense the melted bottled media aseptically into sterile Petri-dishes. Media in Petri-dishes are ready to use.

## FORMULA FOR THE COMPLETE MEDIUM in g/l

Casein peptone	10,00
Meat extract	10,00
Yeast extract	4,00
Glucose	20,00
Sodium acetate	5,00
Ammonium citrate	2,00
Magnesium sulphate x 7 H <sub>2</sub> O	0,20
Manganese sulphate x 4 H <sub>2</sub> O	0,05
Potassium phosphate, dibasic	2,00
TWEEN 80	1,08
Agar	14,75

**Note:** The typical formula can be adjusted to obtain optimal performance.

**Storage conditions:** Store the dehydrated media tightly closed in a dry place at room temperature. Store the bottled media and the supplement protected from light at room temperature. Store the plated media protected from light at 2-8 °C. Use before the expiry date on the label.

### Quality control:

Test strains	Incubation temp: 30 °C	Growth	Incubation time: 72 h
<i>Lactobacillus acidophilus</i> ATCC 4356		Good (under micro-aerobic conditions)	

**References:** DeMan, Rogosa and Sharpe (1960) J. Appl. Bact. 23: 30.  
ISO 15214:2005

**For professional use only!**