



Product Specification Sheet

M.R.S. Agar

Intended Usage: A medium for the cultivation, isolation and enumeration of 'lactic acid bacteria'.

For professional use only.

PO5047A

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Thermo Scientific™ M.R.S. Agar

Form of Product	Poured plate
Storage	6 – 12°C
Filling weight	17 g ± 5 %
Packaging	10 plates wrapped in film
pH	5.7 ± 0.2
Colour	Ivory, transparent
Shelf life	26 weeks
Intended Usage	A medium for the cultivation, isolation and enumeration of 'lactic acid bacteria'. For professional use only.
Technique	Depends on the different methods. For information see Specification Sheet for Thermo Scientific™ Oxoid™ CM361.

Typical formulation*	g/l
Peptone	10.0
'Lab Lemco' powder	8.0
Yeast extract	4.0
Glucose	20.0
Sorbitan mono-oleate	1.0 ml
Dipotassium hydrogen phosphate	2.0
Sodium acetate 3H ₂ O	5.0
Triammonium citrate	2.0
Magnesium sulphate 7H ₂ O	0.2
Manganese sulphate 4H ₂ O	0.05
Agar	10.0

*Adjusted as required to meet performance standards.

Quality Control

1. Control for general characteristics, labeling and printing.
2. Control for sterility
> 72 h @ 25 ± 1°C, aerobic
> 72 h @ 36 ± 1°C, aerobic
3. Biological control
Inoculum size for productivity: 50 – 120 cfu
Inoculum size for selectivity: 10⁴ – 10⁵ cfu

Incubation conditions: 72 h @ 30 ± 1°C, aerobic

Control Strain	Growth
<i>Lactobacillus sakei</i> ATCC® 15521™	0.5 – 2 mm, white shiny colonies.
<i>Lactococcus lactis</i> ATCC® 19435™	1 – 3 mm, cream shiny colonies.
<i>Pediococcus pentosaceus</i> ATCC® 33316™	Good growth, white shiny colonies.
<i>Escherichia coli</i> ATCC® 25922™	No growth.



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