



TECHNICAL DATA SHEET

DESCRIPTION MRS BROTH, BOTTLED
SGL PRODUCT CODE 3159

Lactobacillus MRS broth, also known as de Man, Rogosa and Sharpe medium, is used for the isolation and cultivation of *Lactobacillus spp* and other mesophilic lactic acid bacteria.

FORMULATION

Typical product composition*:

COMPONENT	WEIGHT / VOLUME
Peptone	10.0 g
Yeast extract	5.0 g
Meat extract	10.0 g
Glucose	20.0 g
Potassium phosphate	2.0 g
Sodium acetate	5.0 g
Magnesium sulphate	0.2 g
Manganese sulphate	0.05 g
Tween 80	1.08 g
Ammonium citrate	2.0 g
Purified water	1000 ml

*Product may be adjusted and/or supplemented to meet performance criteria

QUALITY CONTROL SPECIFICATION

PHYSICAL TESTS	SPECIFICATION CRITERIA
Appearance	Clear brown liquid
pH at 20-25°C	5.7 ± 0.2

STERILITY TESTS	SPECIFICATION CRITERIA
Incubation at 22-25°C for a minimum of 5 days	No growth detected
Incubation at 35-37°C for a minimum of 5 days	No growth detected
Incubation at 42-45°C for a minimum of 5 days	No growth detected

GROWTH PROMOTION / INHIBITION TESTS	SPECIFICATION CRITERIA
<i>Lactobacillus sake</i> ATCC 15521 NMT 100 CFU inoculum	Growth detected at 29-31°C incubation after 72±4 hours
<i>Lactobacillus lactis ssp. lactis</i> ATCC 19435 NMT 100 CFU inoculum	Growth detected at 29-31°C incubation after 72±4 hours
<i>Pediococcus damnosus</i> ATCC 29358 NMT 100 CFU inoculum	Growth detected at 29-31°C incubation after 72±4 hours

NMT = Not more than

NLT = Not less than

CFU = Colony forming units



Additional specification testing may be performed as requested by the customer.

Manufactured in compliance with ISO 9001 (Ref No FM37824) and tested by a UKAS (ISO 17025) accredited laboratory (Ref. No. 4356).