



TECHNICAL DATA SHEET

DESCRIPTION MRS AGAR, 90MM PLATES
SGL PRODUCT CODE 9010

A medium also known as de Man, Rogosa and Sharpe agar, used for the isolation, enumeration and cultivation of *Lactobacillus spp.* and other mesophilic lactic acid bacteria from all types of materials. This product is the ISO 15214 formulation and complies with ISO 11133 and the APHA recommendations.

FORMULATION

Typical product composition*:

COMPONENT	WEIGHT / VOLUME
Enzymatic digest of casein	10.0 g
Meat extract	10.0 g
Yeast extract	4.0 g
Tri-ammonium citrate	2.0 g
Sodium acetate	5.0 g
Magnesium sulphate heptahydrate	0.2 g
Manganese sulphate tetrahydrate	0.05 g
Di-potassium hydrogen phosphate	2.0 g
Polysorbate 80	1.08 g
Glucose	20.0 g
Agar	14.0 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 coloured gel
pH at 20-25°C	5.7 ± 0.2

STERILITY TESTS	SPECIFICATION CRITERIA
Incubation at 20-25°C for 10 days	No growth detected
Incubation at 35-37°C for 10 days	No growth detected
Incubation at 42-45°C for 10 days	No growth detected



GROWTH PROMOTION / INHIBITION TESTS	SPECIFICATION CRITERIA
<i>Lactobacillus sakei</i> ATCC 15521 NCTC 13842 NCIB 13090 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 29-31°C incubation after not more than 3 days
<i>Lactobacillus lactis</i> ATCC 19435 NCTC 6681 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 29-31°C incubation after not more than 3 days
<i>Pediococcus damnosus</i> ATCC 29358 NCTC 13842 NCIB 12010 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 29-31°C incubation after not more than 3 days
<i>Bacillus cereus</i> ATCC 11778 NCTC 10320 NLT 1000 CFU inoculum	No growth at 29-31°C incubation after not more than 3 days
<i>Escherichia coli</i> ATCC 25922 NCTC 12241 NLT 1000 CFU inoculum	No growth at 29-31°C incubation after not more than 3 days

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 in accordance with ISO 11133 by a UKAS (ISO 17025) accredited laboratory (Ref No. 4356).