



TECHNICAL DATA SHEET

DESCRIPTION MEMBRANE LACTOSE GLUCURONIDE AGAR (MLGA), 55MM PLATES

SGL PRODUCT CODE 8403

Membrane Lactose Glucuronide Agar (MLGA) is a selective medium for the detection of *Escherichia coli* and coliforms from water samples. The medium contains X-glucuronide chromogen which facilitates the presumptive detection of *Escherichia coli* by the presence of green coloured colonies.

FORMULATION

Typical product composition*:

COMPONENT	WEIGHT / VOLUME
Enzymatic digest of animal tissue	40.0 g
Yeast extract	6.0 g
Lactose	30.0 g
Phenol red	0.2 g
Sodium lauryl sulphate	1.0 g
Sodium pyruvate	0.5 g
5-bromo-4-chloro-3-indolyl-B-D-glucuronide (BCIG)	0.2 g
Agar	10.0 g
Purified water	1000 ml

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

QUALITY CONTROL SPECIFICATION

PHYSICAL TESTS	SPECIFICATION CRITERIA
Appearance	Red coloured gel
pH at 20-25°C	7.4 ± 0.2

STERILITY TESTS	SPECIFICATION CRITERIA
Incubation at 20-25°C for 5 days	No growth detected
Incubation at 35-37°C for 5 days	No growth detected
Incubation at 42-45°C for 5 days	No growth detected



GROWTH PROMOTION / INHIBITION TESTS	SPECIFICATION CRITERIA
<i>Escherichia coli</i> ATCC 25922 NCTC 12241 NMT 100 CFU inoculum	>50% CFU recovery compared to control, green colonies at 35-37°C incubation after not more than 1 day
<i>Enterobacter aerogenes</i> ATCC 13048 NCTC 12241 NMT 100 CFU inoculum	>50% CFU recovery compared to control, yellow colonies at 35-37°C incubation after not more than 1 day
<i>Pseudomonas aeruginosa</i> ATCC 27853 NCTC 12903 NMT 100 CFU inoculum	>50% CFU recovery compared to control, pink colonies at 35-37°C incubation after not more than 1 day
<i>Bacillus subtilis</i> ATCC 6633 NCTC 10400 NLT 1000 CFU inoculum	Growth inhibited compared to control at 35-37°C incubation after not more than 1 day

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).