



TECHNICAL DATA SHEET

DESCRIPTION MINERAL MODIFIED GLUTAMATE AGAR (MMGA), 90MM PLATES

SGL PRODUCT CODE 7037

Mineral modified glutamate agar (MMGA) is used as a resuscitation medium for the enumeration of *Escherichia coli* from food products as well as environmental samples in the area of food production. The samples are inoculated onto MMGA using membranes for a resuscitation period before transfer to a selective culture medium, as described in ISO 16649, ISO 11866 & IDF 170.

FORMULATION

Typical product composition*:

COMPONENT	WEIGHT / VOLUME
Lactose	10.0 g
Sodium formate	0.25 g
L-(-)-cystine	0.02 g
L-(-)-aspartic acid	0.024 g
L-(+)-arginine	0.02 g
Thiamine	0.001 g
Nicotinic acid	0.001 g
Pantothenic acid	0.001 g
Magnesium sulphate heptahydrate	0.1 g
Ferric ammonium citrate	0.01 g
Calcium chloride dihydrate	0.01 g
Dipotassium hydrogen phosphate	0.9 g
Ammonium chloride	2.5 g
Sodium glutamate	6.35 g
Agar	15.0 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, pale straw coloured agar
pH at 20-25°C	6.7 ± 0.2

STERILITY TESTS	SPECIFICATION CRITERIA
Incubation at 20-25°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>Escherichia coli</i> ATCC 8739 NCTC 12923 NCIMB 8545	Good growth compared to control at 36-38°C incubation after 24±2 hours
<i>Escherichia coli</i> ATCC 25922 NCTC 12241	Good growth compared to control at 36-38°C incubation after 24±2 hours
<i>Enterococcus faecalis</i> ATCC 19433 NCTC 775	Total inhibition at 36-38°C incubation after 24±2 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).