



TECHNICAL DATA SHEET

DESCRIPTION TRYPTONE GLUCOSE EXTRACT AGAR (TGE), BOTTLED
SGL PRODUCT CODE 3270

A non-selective medium for the cultivation and enumeration of microorganisms in water, dairy products and other samples. The medium is also used for the detection of thermophilic organisms.

The medium complies with the APHA specification.

FORMULATION

Typical product composition*:

COMPONENT	WEIGHT / VOLUME
Beef extract	3.0 g
Enzymatic digest of casein	5.0 g
Glucose	1.0 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	Transparent, pale straw coloured gel
pH at 20-25°C	7.0 ± 0.2

STERILITY TESTS	SPECIFICATION CRITERIA
Incubation at 22-25°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>Staphylococcus aureus</i> ATCC 25923 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 35-37°C incubation after not more than 1 day
<i>Streptococcus agalactiae</i> ATCC 13813 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 35-37°C incubation after not more than 1 day
<i>Enterococcus faecalis</i> ATCC 19433 NCTC 775 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 35-37°C incubation after not more than 1 day
<i>Escherichia coli</i> ATCC 25922 NCTC 12241 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 35-37°C incubation after not more than 1 day
<i>Salmonella typhimurium</i> ATCC 14028 NCTC 12023 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 35-37°C incubation after not more than 1 day
<i>Pseudomonas aeruginosa</i> ATCC 27853 NCTC 12903 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 35-37°C incubation after not more than 1 day



GROWTH PROMOTION / INHIBITION TESTS	SPECIFICATION CRITERIA
<i>Bacillus cereus</i> ATCC 11778 NCTC 10320 NMT 100 CFU inoculum	≥70% CFU recovery 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).