



TECHNICAL DATA SHEET

DESCRIPTION YEAST EXTRACT AGAR (YEA), BOTTLED

SGL PRODUCT CODE 9087

A medium used for the enumeration of microorganisms in potable and freshwater samples.

The medium complies with the specification of the Microbiology of Drinking Water part 7 – methods for the enumeration of heterotrophic bacteria and with ISO 11133.

FORMULATION

Typical product composition*:

COMPONENT	WEIGHT / VOLUME
Yeast extract	3.0 g
Enzymatic digest of animal tissue	5.0 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	Clear, colourless to pale straw coloured gel
pH at 20-25°C	7.2 ± 0.2

STERILITY TESTS	SPECIFICATION CRITERIA
Incubation at 22-25°C for 14 days	No growth detected
Incubation at 35-37°C for 14 days	No growth detected
Incubation at 42-45°C for 14 days	No growth detected

GROWTH PROMOTION / INHIBITION TESTS	SPECIFICATION CRITERIA
<i>Bacillus subtilis</i> ATCC 6633 NCTC 10400 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 34-38°C incubation after not more than 48 hours
<i>Escherichia coli</i> ATCC 8739 NCTC 12923 NCIB 8545 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 34-38°C incubation after not more than 48 hours
<i>Pseudomonas aeruginosa</i> ATCC 27853 NCTC 12934 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 34-38°C incubation after not more than 48 hours
<i>Staphylococcus aureus</i> ATCC 6538 NCTC 10788 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 34-38°C incubation after not more than 48 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 in accordance with ISO 11133 by a UKAS (ISO 17025) accredited laboratory (Ref No. 4356).

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