



## TECHNICAL DATA SHEET

**DESCRIPTION** TRYPTONE SOYA AGAR (TSA) (EP/USP), BOTTLED  
**SGL PRODUCT CODE** 9001

A medium also known as casein soya bean digest agar designed to recover a wide range of micro-organisms as described in the European Pharmacopoeia (EP) 2.6.13, United States Pharmacopoeia (USP) <62> and ISO 11133.

### FORMULATION

Typical product composition\*:

COMPONENT	WEIGHT / VOLUME
Enzymatic digest of casein	15.0 g
Enzymatic digest of soya bean	5.0 g
Sodium chloride	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, pale straw coloured gel
pH at 20-25°C	7.3 ± 0.2

STERILITY TESTS	SPECIFICATION CRITERIA
Incubation at 22-25°C for 14 days	No growth detected
Incubation at 30-35°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 cereus</i> ATCC 11778 NCTC 10320 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 30-35°C incubation after not more than 3 days
<i>Bacillus subtilis</i> ATCC 6633 NCTC 10400 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 30-35°C incubation after not more than 3 days
<i>Escherichia coli</i> ATCC 8739 NCTC 12923 NCIB 8545 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 30-35°C incubation after not more than 3 days
<i>Enterococcus faecalis</i> ATCC 19433 NCTC 775 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 30-35°C incubation after not more than 3 days
<i>Listeria monocytogenes</i> ATCC 13932 NCTC 10527 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 30-35°C incubation after not more than 3 days
<i>Escherichia coli</i> O157 ATCC 700728 NCTC 12900 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 30-35°C incubation after not more than 3 days



GROWTH PROMOTION / INHIBITION TESTS	SPECIFICATION CRITERIA
<i>Pseudomonas aeruginosa</i> ATCC 9027 NCTC 12924 NCIB 8626 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 30-35°C incubation after not more than 3 days
<i>Staphylococcus aureus</i> ATCC 25923 NCTC 12981 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 30-35°C incubation after not more than 3 days
<i>Staphylococcus aureus</i> ATCC 6536 NCTC 10788 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 30-35°C incubation after not more than 3 days
<i>Aspergillus brasiliensis</i> ATCC 16404 NCPF 2275 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 30-35°C incubation after not more than 5 days
<i>Candida albicans</i> ATCC 10231 NCPF 3179 NMT 100 CFU inoculum	≥70% CFU recovery compared to control at 30-35°C incubation after not more than 5 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).