



## TECHNICAL DATA SHEET

**DESCRIPTION** ISOSENSITEST AGAR (25ML) BSAC, 90MM PLATES  
**SGL PRODUCT CODE** 7533

A medium designed for antimicrobial susceptibility tests. The formulation has been carefully constructed to give a reproducible, semi-defined medium in which the undefined components were kept to a minimum. Isosensitest agar allows the growth of the great majority of micro-organisms without further supplementation and is recommended by BSAC for use in their disc-diffusion method for antimicrobial susceptibility testing.

### FORMULATION

Typical product composition\*:

COMPONENT	WEIGHT / VOLUME
Hydrolysed casein	11.0 g
Enzymatic digest of animal tissue	3.0 g
Glucose	2.0 g
Sodium chloride	3.0 g
Soluble starch	1.0 g
Disodium hydrogen phosphate	2.0 g
Sodium acetate	1.0 g
Magnesium glycerophosphate	0.2 g
Calcium gluconate	0.1 g
Cobaltous sulphate	0.001 g
Cupric sulphate	0.001 g
Zinc sulphate	0.001 g
Ferrous sulphate	0.001 g
Manganous chloride	0.002 g
Menadione	0.001 g
Cyanocobalamin	0.001 g
L-Cysteine hydrochloride	0.02 g
L-Tryptophan	0.02 g
Pyridoxine	0.003 g
Pantothenate	0.003 g
Nicotinamide	0.003 g
Biotin	0.0003 g
Thiamine	0.00004 g
Adenine	0.01 g
Guanine	0.01 g
Xanthine	0.01 g
Uracil	0.01 g
Agar	8.0 g
Purified water	1000 ml

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

### QUALITY CONTROL SPECIFICATION

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PHYSICAL TESTS	SPECIFICATION CRITERIA
Appearance	Clear, pale straw 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	Ciprofloxacin 1µg:31-37mm zone of inhibition at 35-37°C incubation after not more than 1 day
<i>Escherichia coli</i> ATCC 25922 NCTC 12241	Gentamicin 10µg:21-27mm zone of inhibition at 35-37°C incubation after not more than 1 day
<i>Escherichia coli</i> ATCC 25922 NCTC 12241	Chloramphenicol 10µg:20-29mm zone of inhibition at 35-37°C incubation after not more than 1 day
<i>Escherichia coli</i> ATCC 25922 NCTC 12241	Ceftazidime 30µg:31-39mm zone of inhibition at 35-37°C incubation after not more than 1 day
<i>Escherichia coli</i> ATCC 25922 NCTC 12241	Colistin 25µg:16-20mm zone of inhibition at 35-37°C incubation after not more than 1 day
<i>Pseudomonas aeruginosa</i> ATCC 27853 NCTC 12903	Ciprofloxacin 1µg:24-30mm zone of inhibition at 35-37°C incubation after not more than 1 day
<i>Pseudomonas aeruginosa</i> ATCC 27853 NCTC 12903	Gentamicin 10µg:22-28mm zone of inhibition at 35-37°C incubation after not more than 1 day
<i>Pseudomonas aeruginosa</i> ATCC 27853 NCTC 12903	Ceftazidime 30µg:27-35mm zone of inhibition at 35-37°C incubation after not more than 1 day
<i>Pseudomonas aeruginosa</i> ATCC 27853 NCTC 12903	Colistin 25µg:16-20mm zone of inhibition at 35-37°C incubation after not more than 1 day
<i>Staphylococcus aureus</i> ATCC 25923 NCTC 12981	Gentamicin 10µg:20-26mm zone of inhibition at 35-37°C incubation after not more than 1 day
<i>Staphylococcus aureus</i> ATCC 25923 NCTC 12981	Ciprofloxacin 1µg:31-37mm zone of inhibition at 35-37°C incubation after not more than 1 day
<i>Staphylococcus aureus</i> ATCC 25923 NCTC 12981	Erythromycin 5µg:22-29mm zone of inhibition 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).