OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

ISO-SENSITEST™ BROTH CM0473

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Typical Formula*

Hydrolysed casein	grams per litre	11.0
Peptones		3.0
Glucose		2.0
Sodium chloride		3.0
Soluble starch		1.0
Disodium hydrogen phosphate		2.0
Sodium acetate		1.0
Magnesium glycerophosphate		0.2
Calcium gluconate		0.1
Cobaltous sulphate		0.001
Cupric sulphate		0.001
Zinc sulphate		0.001
Ferrous sulphate		0.001
Manganous chloride		0.002
Menadione		0.001
Cyanocobalamin		0.001
L-Cysteine hydrochloride		0.02
L-Tryptophan		0.02
Pyridoxine		0.003
Pantothenate		0.003
Nicotinamide		0.003
Biotin		0.0003
Thiamine		0.00004
Adenine		0.01
Guanine		0.01
Xanthine		0.01
Uracil		0.01

* adjusted as required to meet performance standards

Directions

Add 23.4g to 1 litre of distilled water. Mix well and heat to dissolve. Distribute into tubes or bottles. Sterilize by autoclaving at 121°C for 15 minutes.

Physical Characteristics

Straw, free-flowing powder
Colour on reconstitution – straw 1-2
Moisture level - less than or equal to 7%
pH 7.4 ± 0.2 at 25°C
Clarity – clear

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Microbiological Tests Using Optimum Inoculum Dilution

Control Media: Columbia Blood Agar Base or Columbia Blood Agar Base enriched with 5% v/v horse blood, where appropriate

Reactions after incubation at 35-37°C for 18-20 hours

Medium is challenged with 10-100 colony-forming units

Streptococcus pyogenes	ATCC®19615	Turbid growth
Streptococcus pneumoniae	ATCC®6303	Turbid growth

Medium is challenged with 1E+04 to 1E+06 colony-forming units

Enterococcus faecalis	ATCC®29212	Turbid growth
Escherichia coli	ATCC®25922	Turbid growth
Escherichia coli	ATCC®10536	Turbid growth
Pseudomonas aeruginosa	ATCC®27853	Turbid growth
Pseudomonas aeruginosa	ATCC®25668	Turbid growth
Staphylococcus aureus	ATCC®9144	Turbid growth
Staphylococcus aureus	ATCC®25923	Turbid growth
Staphylococcus aureus	ATCC®29213	Turbid growth

Medium is challenged with 1E+05 to 1E+06 colony-forming units

Enriched with 5% v/v laked horse blood

Streptococcus pneumoniae	ATCC®49619	Turbid growth
Neisseria gonorrhoeae	ATCC®49226	Turbid growth

Enriched with 5% v/v laked horse blood and 20mg/l NAD

Haemophilus influenzae	ATCC®49247	Turbid growth
Haemophilus influenzae	NCTC11931	Turbid growth

A satisfactory result is represented by visible growth.

Bacitracin Activity

Reactions after incubation at 37°C for 18 hours

There shall be no inhibition of Bacitracin activity (DD0002) with *Streptococcus pyogenes* ATCC®19615 when using broth solidified with 1.2% w/v agar enriched with 7% v/v horse blood (SR0050).

		Limits (mm)
Streptococcus pyogenes	ATCC®19615	13-22

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Sulphonamide and Trimethoprim Inhibitors

Reactions after incubation at 37°C for 18 hours

Medium solidified by the addition of 1.2% w/v agar should be free from inhibitors to Sulphonamide or Trimethoprim when tested using the following organisms:

		Limits (mm)
Enterococcus faecalis	ATCC®29212 vs W1.25	14-31
Enterococcus faecalis	ATCC®29212 vs SXT25	18-38
Enterococcus faecalis	ATCC®29212 vs SF300	0-0
Enterococcus faecalis	ATCC®29212 vs RL25	0-0
Enterococcus faecalis	ATCC®33186 vs W1.25	17-29
Enterococcus faecalis	ATCC®33186 vs SXT25	19-32
Enterococcus faecalis	ATCC®33186 vs SF300	0-0
Enterococcus faecalis	ATCC®33186 vs RL25	0-0

MIC test carried out using *Pseudomonas aeruginosa* ATCC®25668 and Gentamicin shall show as end-point inhibition at 0.5-2.0 $\mu g ml^{-1}$.

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire Document	Update to new document format and correction of typographical/minor errors.	Change control	BT-CC-1842
Microbiological characteristics	Addition of Control Media and clarity of results criteria.		
Physical characteristics	Addition of colour on reconstitution.		
Sulphonamide and Trimethoprim Inhibitors	Change SF100 to SF300	Change control	BT-CC-2185