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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

SHEEP BLOOD AGAR BASE (CM0854)

SHEEP BLOOD AGAR BASE	CM0854	
Typical Formula*		
Tryptone	grams per litre	14.0
Peptone		4.5
Yeast extract		4.5
Sodium chloride		5.0
Agar		12.5

^{*} adjusted as required to meet performance standards

Directions

Suspend 40g in 1 litre of distilled water. Bring to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 50°C and aseptically add 7% v/v Sheep Blood (SR0051). Mix well and pour into sterile Petri dishes.

Physical Characteristics

Straw, free-flowing powder
Colour on reconstitution - straw 2-3
Moisture level - less than or equal to 7%
pH 7.3 ± 0.2 at 25°C
Clarity - clear
Gel strength - firm, comparable to 12.5g/litre of agar

The medium is tested for compatibility using 7% v/v oxalated horse blood, defibrinated horse blood or defibrinated sheep blood. There shall be no evidence of lysis or darkening, after incubation at 37°C, 25°C and 4°C for 72 hours.

Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Sheep Blood Agar Base

Reactions after incubation at 37°C for 18 hours

Medium is challenged with 10-100 colony-forming units

Plain plates

Streptococcus pneumoniae	ATCC®6303	Pinpoint-1mm colourless colonies
Streptococcus viridans	NCTC1080	0.25-0.5mm colourless colonies
Streptococcus pyogenes	ATCC®19615	0.25-1mm colourless/white colonies
Stanhylococcus aureus	ATCC®25923	1-2mm white/straw colonies



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Pseudomonas aeruginosa ATCC®27853 2-3mm straw colonies, green pigmentation

Enriched with 7% v/v sheep blood

Streptococcus pneumoniae	ATCC®6303	0.5-2mm colourless colonies, α haemolysis
Streptococcus viridans	NCTC1080	0.5-1mm grey/green colonies, α haemolysis
Haemophilus influenzae	ATCC®19418	Pinpoint-0.25mm white/grey colonies

A satisfactory result is represented by recovery of positive strains equal to or greater than 70% of the control medium.

Zones of growth/no growth surrounding X, V and X+V factor discs (DD0003, DD0004 and DD0005) when plain plates are inoculated with the following organisms and incubated at 37°C for 18 hours:

		X	V	X+V
Haemophilus influenzae	ATCC®9344	0	0	≥ 15mm
Haemophilus influenzae	ATCC®19418	0	0	≥ 15mm
Haemophilus influenzae	ATCC®49247	0	0	≥ 15mm
Haemophilus parainfluenzae	ATCC®33392	0	≥ 20mm	≥ 20mm

Zones of inhibition with Bacitracin discs (DD0002) shall be 10-20mm when 7% v/v horse blood plates are inoculated with *Streptococcus pyogenes* ATCC®19615 and incubated at 37°C for 18 hours.

Additional challenging strains are employed.

Testing performed in accordance with current CLSI M22 A

Reactions after incubation at 35°C for 18-24 hours

Enriched with 7% v/v sheep blood

Medium is challenged with 10-100 colony-forming units

Streptococcus pneumoniae	ATCC®6305	0.5-2mm colourless colonies, α haemolysis
Streptococcus pyogenes	ATCC®19615	0.5-1mm colourless/white colonies, β haemolysis
Staphylococcus aureus	ATCC®25923	1-2mm white/straw colonies

Escherichia coli ATCC® 25922 1-2mm cream colonies

A satisfactory result is represented by recovery of equal to or greater than 70% of the control medium.



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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire Document	Correction of typographical/minor errors.	Change control	MOC-2022- 0377
Microbiological Characteristics CLSI	Change typographical error of ATCC strains to harmonise with certificate for Streptococcus pneumoniae and E. coli. S. pneumoniae: Change ATCC6303 to 6305 E. coli: Change ATCC29212 to 25922		