

Distribution: Central File

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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

BRAIN HEART INFUSION AGAR

CM1136

Typical Formula*

Brain infusion solids	grams per litre	12.5
Beef heart infusion solids		5.0
Proteose peptone		10.0
Sodium chloride		5.0
Glucose		2.0
Di-sodium phosphate		2.5
Agar		10.0

* adjusted as required to meet performance standards

Directions

Suspend 47g in 1 litre of distilled water. Bring to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. Mix well and pour into sterile Petri dishes. For blood agar, cool to 50°C and enrich with 10% v/v sterile defibrinated blood.

Physical Characteristics

Straw, free-flowing powder
 Colour on reconstitution - straw 2-3
 Moisture level - less than 7%
 pH 7.4 ± 0.2 at 25°C
 Clarity - clear
 Gel strength - firm, comparable to 10.0g/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: Brain Heart Infusion Agar

Reactions after incubation at 37°C for 24 hours

Medium is challenged with 10-100 colony-forming units

Plain plates

<i>Staphylococcus aureus</i>	ATCC® 9144	0.5-1mm pale cream colonies
<i>Pseudomonas aeruginosa</i>	ATCC® 27853	1-3mm irregular straw colonies
<i>Enterococcus faecalis</i>	ATCC® 19433	0.5-1mm pale straw colonies
<i>Streptococcus pyogenes</i>	ATCC® 19615	0.5-1mm pale straw colonies
<i>Streptococcus pneumoniae</i>	ATCC® 6303	1-2mm pale straw colonies
<i>Streptococcus pneumoniae</i>	ATCC® 6305	0.5-1mm pale cream colonies

Enriched with 10% v/v horse blood

<i>Streptococcus pyogenes</i>	ATCC® 19615	0.25-1mm pale straw colonies, β haemolysis
<i>Streptococcus pneumoniae</i>	ATCC® 6303	2-5mm grey/green colonies, α haemolysis
<i>Streptococcus pneumoniae</i>	ATCC® 6305	0.5-1mm grey/green colonies, α haemolysis

**Reactions after incubation at 37°C for 24 hours under microaerophilic conditions
(for details, refer to Oxoid Manual - Atmosphere Generation Systems)**

<i>Neisseria gonorrhoeae</i>	ATCC® 19424	1-3mm grey/brown colonies
<i>Neisseria gonorrhoeae</i>	NCTC 11148	1-3mm grey/brown colonies
<i>Neisseria meningitidis</i>	ATCC® 13090	1-3mm grey/brown colonies
<i>Neisseria meningitidis</i>	ATCC® 13077	1-3mm grey/brown colonies

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