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BRAIN HEART INFUSION CM1135		

BRAIN HEART INFUSION

CM1135

Typical Formula*

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

* adjusted as required to meet performance standards

Directions

Dissolve 37g in 1 litre of distilled water. Mix well and distribute into final containers. Sterilize by autoclaving at 121°C for 15 minutes.

Physical Characteristics

Straw, free-flowing powder
 Colour on reconstitution - straw 3-4
 Moisture level - less than 7%
 pH 7.4 ± 0.2 at 25°C
 Clarity - clear

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Microbiological Tests Using Optimum Inoculum Dilution

Control Media: Tryptone Soya Agar, Columbia Blood Agar Base enriched with 5% v/v horse blood, Columbia Blood Agar Base enriched with 5% v/v chocolate horse blood or Sabouraud Dextrose Agar, where appropriate

Reactions after incubation at 37 ± 2°C for 18 hours

Medium is challenged with 10-100 colony-forming units

<i>Streptococcus pyogenes</i>	ATCC® 19615	Turbid growth
<i>Streptococcus pneumoniae</i>	ATCC® 6303	Turbid growth
<i>Streptococcus pneumoniae</i>	ATCC® 6305	Turbid growth
<i>Enterococcus faecalis</i>	ATCC® 19433	Turbid growth
<i>Pseudomonas aeruginosa</i>	ATCC® 27853	Turbid growth

A satisfactory result is represented by visible growth.

Reactions after incubation at 37 ± 2°C for 18 hours under anaerobic conditions (for details, refer to Oxoid Manual - Atmosphere Generation Systems)

Medium is challenged with 10-100 colony-forming units

<i>Streptococcus pneumoniae</i>	ATCC® 6305	Turbid growth
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A satisfactory result is represented by visible growth.

Reactions after incubation at 37 ± 2°C for 48 hours

Medium is challenged with 10-100 colony-forming units

<i>Candida albicans</i>	ATCC® 10231	Turbid growth
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A satisfactory result is represented by visible growth.

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Reactions after incubation at 37 ± 2°C for 48-72 hours

Tested with the addition of 0.1% w/v bacteriological agar (1 Agar Tablet (CM0049) in 100ml medium)

Medium is challenged with 10-100 colony-forming units

Bacteroides fragilis ATCC® 25285 Turbid growth

A satisfactory result is represented by visible growth.

Reactions after incubation at 37 ± 2°C for 24 hours

Enriched 1 x 10ml volume with two X factor discs (DD0003) and two V factor discs (DD0004)

Medium is challenged with 10-100 colony-forming units

Haemophilus influenzae ATCC® 33391 Turbid growth

A satisfactory result is represented by visible growth.

Enriched with 10% v/v horse blood

Reactions after incubation at 37 ± 2°C for 48 hours and subculture onto chocolate agar plates

Incubate plates at 37 ± 2°C for 24-48 hours in CO₂ atmosphere

(for details, refer to Oxoid Manual - Atmosphere Generation Systems)

Neisseria meningitidis ATCC® 13077 1-2mm grey/brown colonies

Neisseria gonorrhoeae NCTC 11148 1-2mm grey/brown colonies

Neisseria gonorrhoeae ATCC® 19424 1-2mm grey/brown colonies

A satisfactory result is represented by a positive diagnostic reaction, on subculture.

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Reactions after incubation at 37 ± 2°C for 4 hours

Tube Coagulase Test

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

<i>Staphylococcus aureus</i>	ATCC® 9144	Coagulase positive
<i>Staphylococcus epidermidis</i>	ATCC® 14990	Coagulase negative

A satisfactory result is represented by the appropriate coagulase reaction.

Testing performed in accordance with ISO11133:2014

Reactions after incubation at 37 ± 2°C for 24 ± 2 hours

Medium is challenged with 10-100 colony-forming units

<i>Staphylococcus aureus</i>	ATCC® 25923	WDCM00034	Turbid growth
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A satisfactory result is represented by visible growth.


Tested in accordance with current CLSI M22 A

Reactions after incubation at 35 ± 2°C for 18 hours

Medium is challenged with 10-100 colony-forming units

<i>Escherichia coli</i>	ATCC® 25922	Turbid growth
<i>Staphylococcus aureus</i>	ATCC® 25923	Turbid growth

A satisfactory result is represented by visible growth.

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Update to 10% Horse Blood Reactions	Change of incubation parameters	Change control	BT-CC-1736