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<b>OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION</b>		
<b>BRAIN HEART INFUSION CM1135</b>		

## 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 chocolated 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 CO<sub>2</sub> 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