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<b>OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION</b>		
<b>MacCONKEY BROTH (PURPLE) CM0505 (CM5A)</b>		

**MacCONKEY BROTH (PURPLE)**

**CM0505 (CM5A)**

**Typical Formula\***

Peptone	grams per litre	20.0
Lactose		10.0
Bile salts		5.0
Sodium chloride		5.0
Bromocresol purple		0.01

\*adjusted as required to meet performance standards

**Directions**

To prepare single strength broth, dissolve 40g in 1 litre of distilled water. Mix well and distribute into final containers with Durham tubes. Sterilize by autoclaving at 121°C for 15 minutes.

**Physical Characteristics**

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

**Microbiological Tests Using Optimum Inoculum Dilution**

Control Medium: Tryptone Soya Agar

**Reactions after incubation at 37°C for 24 hours**


Medium is challenged with 10-100 colony-forming units

<i>Escherichia coli</i>	ATCC®8739	Turbid growth, acid and gas
<i>Escherichia coli</i>	ATCC®11775	Turbid growth, acid and gas
<i>Klebsiella pneumoniae</i>	ATCC®29665	Turbid growth, acid and gas

A satisfactory result is represented by visible growth.

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

<i>Pseudomonas aeruginosa</i>	ATCC®9027	Turbid growth no reaction
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*Staphylococcus aureus*      ATCC®6538      No growth to turbid growth, no reaction

A satisfactory result is represented by visible growth and a negative reaction.

**Reactions after incubation at 44°C for 24 hours**

*Escherichia coli* confirmation test


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

<i>Escherichia coli</i>	ATCC®8739	Turbid growth, acid and gas
<i>Escherichia coli</i>	ATCC®11775	Turbid growth, acid and gas
<i>Klebsiella pneumoniae</i>	ATCC®29665	No growth or turbid growth, no reaction

A satisfactory result is represented as follows;

<i>Escherichia coli</i>	Turbid growth, acid and gas
<i>Klebsiella pneumoniae</i>	No growth or turbid growth with no reaction (no acid or gas)

Acid production is indicated by a colour change from purple to yellow.

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### Revision History

Section / Step	Description of Change	Reason for Change	Reference
Physical characteristics	Update colour of powder	Change control	MOC-2024-1607