

MAC CONKEY BROTH

APPLICATION	<p>MacConkey Broth is a liquid medium used for the selective cultivation of Gram-negative, lactose-fermenting bacilli in water, food and pharmaceutical raw materials as a presumptive test for coliform organisms</p> <p>This medium complies with the recommendations of the harmonized method in the United States Pharmacopoeia (USP) and European Pharmacopoeia (EP).</p>																
PRINCIPLE AND INTERPRETATION	<p>Pancreatic digest of gelatin provides amino acids, nitrogen, carbon, vitamins and minerals for organisms growth. Lactose is the fermentable carbohydrate. Ox bile inhibits the growth of Gram-positive bacteria. Bromocresol purple is the pH indicator.</p> <p>Turbidity of MacConkey Broth indicates microbial growth. Acid production due to lactose fermentation causes a color change of the medium to yellow. Non-fermenting Gram-negative organisms produce good growth but without significant changes in color.</p>																
MEDIUM COMPOSITION*	<p>Peptone G.....20.00 g/l Lactose monohydrate.....10.00 g/l Dehydrated ox-bile.....5.00 g/l Bromo cresol purple.....0.01 g/l</p> <p>Final pH 7.3 ± 0.2</p> <p>* Adjusted and/or supplemented to meet performances criteria</p>																
STORAGE	<p>2-25°C</p> <p>Protect from light, excessive heat, moisture and freezing</p>																
STERILIZATION	<p>Autoclaved</p>																
QUALITY CONTROL	<p>Growth Promotion Test:</p> <table border="1" data-bbox="507 1323 1481 1592"> <thead> <tr> <th>Control strain</th> <th>Medium inoculation level</th> <th>Incubation Conditions</th> <th>Recovery Specifications</th> </tr> </thead> <tbody> <tr> <td><i>E. coli</i> ATCC 8739</td> <td>10-100 viable microorganisms</td> <td>24 h at 43 ± 1°C</td> <td>Positive growth. Acid: +</td> </tr> <tr> <td><i>E. aerogenes</i> ATCC 13048</td> <td>10-100 viable microorganisms</td> <td>24 h at 43 ± 1°C</td> <td>Positive growth. Acid: +</td> </tr> <tr> <td><i>S. aureus</i> ATCC 6538</td> <td>≥100 viable microorganisms</td> <td>48 h at 43 ± 1°C</td> <td>Inhibited</td> </tr> </tbody> </table> <p>Sterility control: no growth</p> <p>Appearance: purple coloured, clear solution</p>	Control strain	Medium inoculation level	Incubation Conditions	Recovery Specifications	<i>E. coli</i> ATCC 8739	10-100 viable microorganisms	24 h at 43 ± 1°C	Positive growth. Acid: +	<i>E. aerogenes</i> ATCC 13048	10-100 viable microorganisms	24 h at 43 ± 1°C	Positive growth. Acid: +	<i>S. aureus</i> ATCC 6538	≥100 viable microorganisms	48 h at 43 ± 1°C	Inhibited
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GENERAL WARNING NOTES	<p>Device must be handled according to asepsis precautions, of utilization of culture media is strictly referred to the type of analysis that must be done. Please refer to specific norms and procedures. Do not use if device is broken. Do not use if media shows accidental contamination signs. Do not utilize after expiry date. Let device reach room temperature before utilizing. Results interpretation must be done by qualified personnel, who must consider context of use. Disposal of waste must be carried out according to national and local regulations in force.</p>																

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This item is available in:

➤ Sterile bottled media

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
100ml	083A/30PSC28.100	083A/30PSC28.100.10 (10 bottles/pack)	100ml in 125ml volume, PP 28 Screw Cap Bottle	12 months
100ml	083A/31P.100	083A/31P.100.10 (10 bottles/pack)	100ml in 200ml volume, PP28 polypropylen screw cap with two Septum	12 months

Customized filling volumes and formulations are available upon request

To receive information please

contact info@cpcbiotech.it