

MAC CONKEY AGAR w/o BILE SALT

Medium for isolating and differentiating enteric microorganisms while permitting growth of enterococci.

TYPICAL FORMULA (g/L)

Peptone	20.0
Lactose.....	10.0
Sodium chloride.....	5.0
Neutral red.....	0.03
Crystal violet.....	0.001
Agar.....	15.0
Final pH 7.1 ± 0.2	

DESCRIPTION

MAC CONKEY AGAR w/o BILE SALT is used for isolating and differentiating enteric microorganisms while permitting growth of enterococci.

PRINCIPLE

Peptones are sources of nitrogen and other nutrients. Lactose is fermentable carbohydrate. When lactose is fermented, a local pH drop around the colony causes a color change in the pH indicator (neutral red). Crystal violet is selective agents that inhibits growth of gram-positive organisms. Agar is the solidifying agent.

PREPARATION

Suspend 50,0 g in 1 litre of distilled water . Heat until completely dissolved. Dispense into final containers. Autoclave at 121°C for 15 minutes.

TECHNIQUE

Inoculate the specimen, in order to obtain isolated colonies, streaking it onto the surface of the medium using a sterile loop. Incubate at 36°C ± 1°C for 18-24 hours.

INTERPRETATION OF RESULTS

Lactose -fermenting organisms grow as pink to brick-red colonies , while lactose –nonfermenting organisms grow as colorless or clear colonies. Enterococci produce tiny red colonies.

Although MAC CONKEY AGAR w/o BILE SALT is used for isolating and differentiating enteric microorganisms, biochemical and , if indicated, serological testing using pure cultures are recommended for complete identification.

STORAGE

10-30°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

WARNING and PRECAUTIONS

The product is not classified as hazardous by current legislation and does not contain harmful substances in concentrations of ≥1%. The product is designed for *In vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL of WASTE

Disposal of waste must be carried out according to national and local regulations in force.

REFERENCES

1. Kelly, Brenner and Farmer. 1985. In Lennette, Balows, Hausler and Shadomy (ed.), *Manual of clinical microbiology*, 4th ed. ASM, Washington, D.C.



LIOFILCHEM Bacteriology Products

64026 ROSETO D.A. (TE) ITALY- Via Scozia- Zona Ind.le

Tel. +39 085 8930745 - Fax +39 085 8930330

Sito Web: <http://www.liofilchem.net> E-Mail: liofilchem@liofilchem.net

PRODUCT SPECIFICATIONS

NAME

MAC CONKEY AGAR w/o BILE SALT

PRESENTATION

Dehydrated powder.

STORAGE

10-30°C

PACKAGING

Code	Content	Packaging
610128	500 g	500 g of powder in plastic bottle
620128	100 g	100 g of powder in plastic bottle

pH OF THE MEDIUM

7.1 ± 0.2

USE

MAC CONKEY AGAR w/o BILE SALT is used for isolating and differentiating enteric microorganisms while permitting growth of enterococci.

TECHNIQUE

Refer to technical sheet of the product.

APPEARANCE of the MEDIUM

Dehydrated medium

Appearance: free-flowing, homogeneous.

Colour: pinkish beige

Prepared medium

Appearance: clear

Colour: pinkish red

SHELFLIFE

4 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control
7 days at 25 ± 1°C, in aerobiosis
7 days at 36 ± 1°C, in aerobiosis
- Microbiological control
Inoculum for productivity: 10-100 UFC/ml
Inoculum for selectivity: 10⁴-10⁵ UFC/ml
Inoculum for specificity: ≤ 10⁴ UFC/ml
Incubation conditions: 24 h at 35±/-2°C

Microorganism		Growth	Colony color
<i>Enterococcus faecalis</i>	ATCC 29212	Good	red
<i>Staphylococcus aureus</i>	ATCC 25923	Inhibited	
<i>Salmonella typhimurium</i>	ATCC 14028	Good	colorless
<i>Escherichia coli</i>	ATCC 25922	Good	Pink to red

TABLE OF SYMBOLS

SYMBOL	MEANINGS
	Catalogue number
	In vitro Diagnostic Medical Device
	Manufacturer
	Temperature limitation
	Contains sufficient <n> tests
	Use by
	Batch code
	Keep away from heat
	Consult accompanying documents



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