# MacConkey Broth

For the detection of coliforms in water, milk and other materials of sanitary importance

#### Formula in grams per liter:

Gelantin Pancreatic Digest Dehydrated Oxbile 20,00 Lactose Monohydrate 5,00 Bromcresol Purple 10,00

CVR: 30 68 13 39

Web: sciencelabs.dk

Email: kontakt@sciencelabs.dk

Final pH: 7,3 ± 0,2 at 25 °C

## **Preparation:**

Suspend 35 grams of medium in one liter of distilled water. Heat with frequent agitation until completely dissolved. To analyze 10 ml samples, prepare a double concentration medium. Dispense in test tubes with a gas collecting tube (Durham) 10 ml amount for samples of 1 ml or less. Sterilize in an autoclave at 121°C (15 lbs. of pressure) for 15 minutes.

#### **Uses:**

MacConkey broth is used for cultivating gram-negative, lactose, fermenting bacilli in water and foods, as a presumptive test medium for the presence of coliform organisms in water and other materials of sanitary importance. Formation of gas and acid confirm the presence of coliforms, as demonstrated by the change of medium color from purple to yellow.

## **Microbiological Tests:**

Microorganisms	Growth	Acid	Gas
Enterobacter aerogenes ATCC 13048	Satisfactory	+	+
Escherichia coli ATCC 25922	Satisfactory	+	+
Salmonella cholerasuis ATCC 12011	Acceptable	-	-
Staphylococcus aureus ATCC 25923	Null	-	-

