

## MRS Broth

**Product No.** CM187

### Intended Use

Used for the cultivation of *Lactobacillus*.(SN)

**Specification** 250 g

Ingredients	(g/L)
Peptone	10.0
Beef extract	10.0
Yeast extract	5.0
Glucose	20.0
Magnesium sulfate	0.1
Sodium acetate	5.0
Ammonium citrate	2.0
Dipotassium hydrogen phosphate	2.0
Manganous sulfate	0.05
Tween 80	1.0
(pH 6.2 ± 0.2)	

### Additional Reagents

No

### Principle and Interpretation

Peptone, beef extract and yeast extract are used as nutrients in the medium to provide nitrogen sources, vitamins and growth factors needed for cell growth. Glucose is fermentable carbohydrate. Dipotassium hydrogen phosphate is acid-base buffer. Magnesium sulfate, sodium acetate, ammonium citrate, manganese sulfate and tween 80 provide various coenzymes needed for the growth of various lactic acid bacteria, and neutralize cytotoxic substances, providing a good growth environment for lactic acid bacteria.

### Directions

Suspend 55.2 g of the powder in 1 L of distilled water. Heat with frequent agitation and boil to dissolve completely. Disassemble into test tubes, autoclave at 121°C for 15 minutes.

\* Small amount of precipitation is normal.

### Precautions

No

### Quality Control

Microorganisms	Inoculum (CFU)	Method	Incubation	Growth (Turbidity)
<i>Lactobacillus casei</i> ATCC 334	10-100	Semi- quantitative	36°C±1°C 18h-24h	Grown well, turbidity 2
<i>Lactobacillus plantarum</i> ATCC 8014				
<i>Lactobacillus leichmannii</i> ATCC 7830				
<i>lactic streptococci</i> ATCC 19435				

### Storage Conditions

Keep container tightly closed and store in a cool dry place.

### Shelf Life

3 years.

*For laboratory use in industry or R&D purpose. Not for drug, household or other uses.*