

MRS Medium

Product No. CM188A

Intended Use

Used for enumerating and cultivating *Lactobacillus* species. MRS medium with Mupirocin lithium salt and L-cysteine hydrochloride can be used for enumerating *Bifidobacterium*. (GB)

Specification 250 g

Ingredients	(g/L)
Peptone	10.0
Beef Extract	10.0
Yeast Extract	5.0
Glucose	20.0
Polysorbate 80	1.0mL
Dipotassium Hydrogen Phosphate (7H ₂ O)	2.0
Sodium Acetate (3H ₂ O)	5.0
Triammonium Citrate	2.0
Magnesium Sulfate (7H ₂ O)	0.1
Manganese Sulfate (4H ₂ O)	0.05
Agar	15.0
(pH 6.2 ± 0.2)	

Additional Reagents

L-cysteine hydrochloride	500μg/mL
Mupirocin lithium salt	50μg/mL

Principle and Interpretation

Peptone 、 Beef extract 、 yeast extract and dextrose supply nitrogen, carbon and other elements necessary for growth. Polysorbate 80, acetate, magnesium and manganese provide growth factors for culturing a variety of *lactobacilli*. The mupirocin lithium salt may inhibit the growth of some organisms other than *lactobacilli*. Mupirocin lithium may promote the growth of *bifidobacteria* .Agar is the solidifying agent.

Directions

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Suspend 70.15 g of the powder in 1 L of distilled water. Heat with frequent agitation and boil to dissolve completely. Autoclave at 121°C for 15minutes. Cool to approximately 50°C and use immediately. To prepare MRS medium with Mupirocin lithium salt and L-cysteine hydrochloride, aseptically add one vial of mupirocin lithium salt (Cat. No. P-109) and one vial of L-cysteine hydrochloride (Cat. No. P-03) to 100 mL MRS medium base. Mix thoroughly and pour into sterile Petri dishes.

Precautions

No

Quality Control

Microorganisms	Inoculum (CFU)	Reference Medium	Method	Incubation	Growth (Productivity Ratio : PR)
<i>Lactobacillus helveticus</i> CICC 6032	50-250	MRS	quantitative	36°C±1°C 48h-72h	PR≥0.7 Round raised, medium size, with neat edges, colorless and opaque
<i>Streptococcus thermophilus</i> CICC 6038					
<i>Bifidobacterium</i> CICC 6069				36°C±1°C 18h±24h Anaerobic	PR≥0.7 Round, medium size, with neat edges, porcelain white

Storage Conditions

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

Shelf Life

3 years.

Related Products

Product No.	Product Name	Specification
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P-03	L-cysteine hydrochloride	50 mg x10
P-109	Mupirocin lithium salt	5 mg x 5

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