
Product Specification

Product Name: MRS Agar

Product Code: SG7053

PRODUCT DESCRIPTION:

MRS Agar is used for the separation, counting, and cultivation of lactic acid bacteria. It can be supplemented with mupirocin lithium salt and L-cysteine hydrochloride reagents to create a modified MRS mupirocin lithium salt agar medium. Suitable for the isolation and counting of Bifidobacteria.

Use:

Stir to suspend 70.2 g of dehydrated medium in 1L distilled H₂O. Mix well with heat with frequent agitation. Boil for one minute, then autoclave it at 121°C for 15 minutes. Allow to cool (40– 45°C) before making additions, such as antibiotics (if desired). Dispense into petri dishes. For laboratory use only.

To prepare modified MRS Agar, add 5 mg of Mupirocin Lithium Salt solution and 50 mg of Cysteine Hydrochloride solution to every 100 mL of MRS Agar Medium.

Components:

Peptone - 10.0 g/L

Yeast Extract - 5.0 g/L

Beef Extract – 10.0 g/L

Glucose - 20.0 g/L

Tween-80 – 1.0 mL

Dipotassium Hydrogen Phosphate – 2.0 g/L

Sodium Acetate – 5.0 g/L

Triammonium Citrate – 2.0 g/L

Magnesium Sulfate - 0.1 g/L

Manganese Sulfate - 0.05 g/L

Agar - 15.0 g/L

Item	Description
<u>Physical and Chemical Tests</u>	
Appearance (dry):	Yellowish Powder
pH (@25°C):	6.2 ± 0.2
<u>Microbiological Tests</u>	
<i>L. delbrueckii subsp. bulgaricus</i> (CICC6032)	<u>Quality Control Results</u> PR ≥ 0.7, Flat, irregular edges, colorless and opaque
<i>S. thermophilus</i> (IFFI6038)	PR ≥ 0.7, Circular convex, small colonies, neat edges, colorless and opaque
<i>B. infantis</i> , Anaerobic (CICC6069)	PR ≥ 0.7, Circular, medium size, neat edges, porcelain white

* The microbiological test results were obtained from type cultures after incubation at a temperature of 36 ± 1°C and observed after 48 ± 2 hours.

Storage: Store in a dry and dark place at room temperature. Tighten the cap immediately after use.