

**MCBRIDE LISTERIA AGAR BASE**Product Number **M9927****Product Description**

McBride Listeria Agar Base with supplements is used for the selective isolation and cultivation of *Listeria monocytogenes* from foods and clinical samples. Beef extract in the medium supply nitrogen, carbon, sulphur and trace nutrients. Phenyl ethanol is bacteriostatic for gram-negative bacteria as it selectively inhibits DNA synthesis. Glycine inhibits certain gram-negative and gram-positive bacteria including *Escherichia coli* and *Enterococcus faecalis*, thus facilitating the growth of *Listeria monocytogenes*. Lithium chloride also has antibacterial activity.

**Components**

Item	g/L
Tryptose	10.00
Beef Extract	3.00
Sodium Chloride	5.00
Glycine Anhydride	10.00
Lithium Chloride	0.50
Phenyl Ethanol	2.50
Agar	15.00

Final pH (at 25°C) 5.5 ± 0.2

**Precautions and Disclaimer**

For laboratory use only. Not for drug, household or other uses.

**Preparation Instructions**

Suspend 46 grams in 1000 mls of distilled water. Boil to dissolve the medium completely. Sterilize by

**Product Information**

autoclaving at 15 lbs. pressure (121°C) for 15 minutes. Cool below 50°C. Before gelling, aseptically add sterile defibrinated blood to a final concentration of 5% v/v. Also add the rehydrated contents of one vial of L9535 McBride Listeria Supplement. Mix well and pour into sterile petri plates.

**Storage**

Store the dehydrated medium at 24°C and the prepared medium at 2-8°C.

**Product Profile**

Appearance	Yellow colored, homogenous, free flowing powder.
Gelling	Firm.
Color and Clarity	Light amber colored, clear to slightly opalescent gel forms in petri plates.
Cultural Response	Cultural characteristics are observed after 24-48 hours hours at 35°C.

**References**

1. McBride M.E., et al., (1960) J. Lab. Clin. Med. 55, 153.
2. Compendium of Methods for the Microbiological Examination of Foods, (1992). Vandersant, C., et al., eds. 3<sup>rd</sup> Edition. APHA. Washington, D.C.
3. Finegold, S. M., et al., (1978). Bailey and Scott's Diagnostic Microbiology. 5<sup>th</sup> Edition. The C.V. Mosby Company. St. Louis, Missouri.
4. McClain, D., et al., (1989). Lab. Comm. No. 57. Revised May 24, 1989. U.S. Dept. of Agric. FSIS. Microbiol. Div. Beltsville, Maryland

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