

Iron-reducing Bacteria Basal Broth



Medium used for the cultivation and enumeration of iron reducing bacteria.

• CONTENTS (Liter)

Glucose	10.0 g
Yeast Extract	0.1 g
Ammonium Sulfate	2.0 g
Dipotassium Phosphate	0.05 g
Magnesium Sulfate Heptahydrate	0.02 g
Final pH = 7.0 ± 0.2 at 25°C	

• PROCEDURE

Suspend 12.2 G of powder in 1 L of distilled or deionized water. Add 2 vials of Iron-reducing Bacteria Basal Broth supplement (MB-I0727). Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into tubes.

Iron-reducing Bacteria Basal Broth supplement

1 vial contents (each vial is sufficient for 500 mL of medium)

Sodium Tetraborate Decahydrate	0.00005 g
Manganese Chloride Tetrahydrate	0.00005 g
Copper Sulfate Pentahydrate	0.0002 g
Ammonium Molybdate	0.000025 g
Iron Sulfate Hydrate	0.0001 g
Zinc Sulfate Heptahydrate	0.0002 g

• INTERPRETATION

Iron-reducing Bacteria Basal Broth is a medium used for the cultivation and enumeration of iron reducing bacteria. Glucose and yeast extract provide nutrients for growth of microorganisms. Ammonium sulfate, magnesium sulfate, sodium tetraborate, manganese chloride, copper sulfate, ammonium molybdate, iron sulfate, zinc sulfate provide the essential electrolytes and minerals. Dipotassium phosphate is the buffering agent.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 36 ± 1°C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: white

Prepared medium

Appearance : clear to slightly opalescent

Color: colorless

Incubation conditions: 36 ± 1°C / 18 - 24 hours

Microorganism	ATCC	Inoculum CFU	Growth
<i>Bacillus cereus</i>	11778	10 ² -10 ³	good

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

• PACKAGE

Cat. No : MB-I0624 Iron-reducing Bacteria Basal Broth	500 G
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