

PMM7 Minimal Broth



Medium used for the cultivation and enumeration of *Pseudomonas aeruginosa*.

• CONTENTS (Liter)

| | |
|------------------------------|---------|
| Phosphate | 6.0 g |
| Sodium Acetate | 1.0 g |
| Ammonium Citrate | 0.6 g |
| Arginine | 0.125 g |
| Cysteine | 0.13 g |
| Glutamate | 0.5 g |
| Magnesium Chloride | 0.2 g |
| Manganese Chloride | 0.016 g |
| Final pH = 7.0 ± 0.2 at 25°C | |

• PROCEDURE

Suspend 8.57 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilized by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. If necessary, aseptically add 2 vials of PMM7 Minimal Broth supplement (MB-P0733). Mix well. Pour into tubes.

PMM7 Minimal Broth supplement

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

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|------------------|----------|
| Isoleucine | 0.105 g |
| Leucine | 0.238 g |
| Methionine | 0.063 g |
| Phenylalanine | 0.138 g |
| Threonine | 0.113 g |
| Tryptophan | 0.025 g |
| Tyrosine | 0.125 g |
| Nicotinic Acid | 0.0005 g |
| Pantothenic Acid | 0.0005 g |
| Pyridoxamine | 0.0025 g |
| Valine | 0.166 g |
| Ascorbic Acid | 0.25 g |
| Riboflavin | 0.0005 g |

• INTERPRETATION

PMM7 Minimal Broth is a medium used for the cultivation and enumeration of *Pseudomonas aeruginosa*. Phosphate is the buffering agent. Sodium acetate, ammonium citrate, glutamate, magnesium chloride and manganese chloride are sources of ions that simulate metabolism. Arginine, cysteine and PMM7 Minimal Broth supplement provide nutrients for the growth of microorganisms.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 35 ± 2°C for 18 - 24 hours.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: white

Prepared medium

Appearance: clear with slight precipitates

Color: colorless

Incubation conditions: $35 \pm 2^{\circ}\text{C}$ / 18 - 24 hours

| Microorganism | ATCC | Inoculum CFU | Growth |
|-------------------------------|-------|--------------|--------|
| <i>Pseudomonas aeruginosa</i> | 9027 | 50-100 | good |
| <i>Pseudomonas aeruginosa</i> | 27853 | 50-100 | 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 $2 - 8^{\circ}\text{C}$.

• PACKAGE

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|---|-------|
| Cat No : MB-P0635 PMM7 Minimal Broth | 500 G |
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