

## Mannitol Yolk Polymyxin Agar Base (MYP)

Product No.	Product Category	Specification
HCM029	Dehydrated Culture Medium	500g/bottle

### Intended Use

For the isolation and enumeration of the vegetative and spore forms of *Clostridium perfringens* in foodstuffs and other materials.

### Principle and Interpretation

Peptone and beef extract powder provide nitrogen, vitamins and growth factors; D- mannitol as fermentable sugars; sodium chloride to maintain osmotic equilibrium; agar as medium coagulant; phenol red as a pH indicator; yolk contains lecithin, lecithin to produce *Bacillus cereus* enzyme precipitation ring around the colonies; and D- mannitol produce acid fermentation Colonies was yellow; polymyxin B inhibit the growth of bacteria.

### Formulation

Ingredients	/liter
Beef extract	1.0g
Peptone	10.0g
D- mannitol	10.0g
Sodium chloride	10.0g
Phenol red	0.025 g
Agar	15.0g
pH7.2±0.2 at 25°C	

### Preparation

Suspend 46g in 1L of distilled or deionized water. Heat with frequent agitation and boil to completely dissolve the powder. Distribute into flasks. Autoclave at 121 °C for 15 minutes and then cool to 50 °C. Add 5mL of 50% sterile egg-yolk emulsion(029250) and 10000IU of polymyxin B(SR0170) to 100mL of the medium. Mix thoroughly and pour into sterile Petri dishes.

### Quality Control

Cultural characteristics observed after an incubation at 35-37°C for 24 hours

Quality control strains	Growth	Characteristics
<i>Bacillus cereus</i> CMCC(B)63303	Good, PR ≥ 0.7	Pink colonies with precipitation halo
<i>Escherichia coli</i> ATCC25922	none	/

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# Technical Data Sheet



## Storage and Shelf Life

2-30°C, Keep container tightly closed, avoid direct sunlight.

Use before expiry date on the label.

## Precautions

1. When weighing the dehydrated medium, please wear masks to avoid causing respiratory system discomfort
2. Keep container tightly closed after using to prevent clumping.

## Waste Disposal

Microbiological contamination was disposed by autoclaving at 121°C for 30 minutes.

## Revision

On June 14, 2024

## References

BAM Media M95

ISO 7932

ISO 21871

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