

Reinforced Clostridial Semi-Solid



Medium used for the cultivation and enumeration of *Clostridium* spp. and other anaerobes from foods and clinical specimens.

*Equally use with KP (MB-R1096P), USP and EP.

• CONTENTS (Liter)

Peptone	10.0 g
Beef Extract	10.0 g
Yeast Extract	3.0 g
Starch	1.0 g
Dextrose	5.0 g
L-Cysteine HCl	0.5 g
Sodium Chloride	5.0 g
Sodium Acetate	3.0 g
Agar	0.5 g
Final pH = 6.8 ± 0.2 at 25°C	

• PROCEDURE

Suspend 38.0 G of powder in 1 L of distilled or deionized water. 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.

• INTERPRETATION

Reinforced Clostridial Semi-Solid is a medium used for the cultivation and enumeration of *Clostridium* spp. and other anaerobes from foods and clinical specimens. Peptone and beef extract provide nitrogen, carbon, amino acids and minerals. Yeast extract supplies B-complex vitamins which stimulate growth of microorganisms. Starch detoxifies metabolic byproducts in low concentrations. Dextrose provides an energy source. L-Cysteine HCl provides growth factors. Sodium chloride maintains the osmotic balance. Sodium acetate serves as the buffering agent. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen using a sterile needle to the middle of the medium. Incubate at 30 - 35°C for 48 hours under anaerobic condition. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: beige

Prepared medium

Appearance: slightly opalescent.

Color: light amber

Incubation conditions: 30 - 35°C / 48 hours under anaerobic condition

Microorganism	ATCC	Inoculum CFU	Growth
<i>Clostridium sporogenes</i>	11437	50-100	good
<i>Clostridium perfringens</i>	13124	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°C.

• REFERENCES

1. ISO 6461/1 (1986) Water quality - Detection and enumeration of the spores of sulfite-reducing anaerobes (clostridia) - Part 1: Method by enrichment in a liquid medium.
2. Gibbs, M.B. & Freame B. (1965). J. Appl. Bact .28: 95-111.
3. Refer to KP, USP and EP.

• PACKAGE

Cat. No : MB-R1096 Reinforced Clostridial Semi-Solid	500 G
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