

PSBB (Peptone Sorbitol Bile Broth)



Medium used for the isolation and cultivation of *Yersinia* spp. from dairy products.

*Equally use with MFDS (MB-P1391K).

• CONTENTS (Liter)

Peptone	5.0 g
Disodium Phosphate	8.23 g
Monosodium Phosphate	1.2 g
Bile Salts No.3	1.5 g
Sodium Chloride	5.0 g
Sorbitol	10.0 g
Final pH = 7.6 ± 0.2 at 25°C	

• PROCEDURE

Suspend 30.93 G of powder to 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

PSBB (Peptone Sorbitol Bile Broth) is a medium used for the isolation and cultivation of *Yersinia* spp. from dairy products. Peptone provides nutrients for the growth of microorganisms. Disodium phosphate and monosodium phosphates are the buffering agents. Bile salts No.3 inhibits Gram-positive organisms. Sodium chloride maintains the osmotic balance. Sorbitol is the fermentable carbohydrate.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 22 - 25°C for 2 - 3 days up to 5 days. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

Prepared medium

Appearance: clear to slightly opalescent

Color: very light amber

Incubation conditions: 22 - 25°C / 2 - 3 days up to 5 days

Microorganism	ATCC	Inoculate CFU	Growth
<i>Yersinia enterocolitica</i>	23715	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. Doyle M.P., Hugdahl M.B., Taylor S. L., 1981, Appl. Environ. Microbiol. 42:661-666
2. Francis D. W., Spaulding P.L., Lovett J., 1980, Appl. Environ. Microbiol. 40:174-176
3. Wehr H.M. and Frank J. H., 2004, Standard Methods for the Microbiological Examination of Dairy Products, 17th Ed., APHA Inc., Washington, D.C.
4. Refer to the MFDS.

• PACKAGE

Cat. No : MB-P1391 PSBB (Peptone Sorbitol Bile Broth)	500 G
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