

PSBB (Peptone Sorbitol Bile Broth)



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

* Equally use with MFDS (MB-P1391K) and QIA (MB-P1391Q).

• 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 medium used for the isolation and cultivation of *Yersinia* spp. from dairy products. Peptone provides nutrients for growth of microorganisms. Phosphates are the buffering agent. Bile salts No.3 inhibits gram-positive organisms. Sodium chloride maintains the osmotic balance. Sorbitol is the fermentable carbohydrate.

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. Incubate at 22 - 25 °C for 2 - 3 days up to 5 days (MFDS and QIA at 10 °C for 10 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: light yellow

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

(MFDS and QIA at 10 °C for 10 days)

Microorganism	ATCC	Inoculate CFU	Growth
<i>Yersinia enterocolitica</i>	23751	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 or until signs of deterioration or contamination are evident. 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 and the QIA.

• PACKAGE

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