

Selenite (F) Broth



Medium used for selective enrichment of *Salmonella* spp..

*Equally use with MFDS (MB-S1145K) and NIER (MB-S1145N).

• CONTENTS (Liter)

Peptone	5.0 g
Lactose	4.0 g
Disodium Phosphate	10.0 g
Sodium Selenite	4.0 g
Final pH = 7.0 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 23.0 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. DO NOT AUTOCLAVE. Cool to 45-50°C in water bath. Mix well. Dispense in tubes.

• INTERPRETATION

Selenite (F) Broth is a medium used for selective enrichment of *Salmonella* spp.. Peptone and lactose provide nitrogen, carbon, amino acids and minerals. Disodium phosphate is the buffering agent. Sodium selenite is reduced by bacterial growth.

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. Incubate at 37 ± 1 °C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: white.

Prepared medium

Appearance: clear with no precipitate.

Color: very light amber.

Incubation conditions: 37 ± 1 °C / 18 - 24 hours

Microorganism	ATCC	Inoculum CFU	Growth
<i>Salmonella typhimurium</i>	14028	50-100	good
<i>Escherichia coli</i>	25922	50-100	partially inhibited

• 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. Am. J. Hyg., 24: 423, 1936.
2. Public Health Reports, 63: 1075, 1916.
3. Refer to the MFDS and NIER.

• PACKAGE

Cat. No : MB-S1145 Selenite (F) Broth	500 G
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• MICROBIAL CULTURE IMAGES



Incubation conditions : 36±1°C 18-24h