

Medium used for isolation and cultivation 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 \pm 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. Over heating will destroy the selectivity. Cool to 45 - 50°C in water bath. Mix well. Pour into tubes.

INTERPRETATION

Selenite (F) Broth is a medium used for the isolation and cultivation of Salmonella spp. Peptone provides nitrogen, carbon, amino acids and minerals. Lactose is the fermentable carbohydrate. Disodium phosphate is the buffering agent. Sodium selenite is the selective agent.

TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at $35 \pm 2^{\circ}C$ for 18 - 24 hours. Slightly loosen the caps. Subculture onto MacConkey Agar and incubate at $35 \pm 2^{\circ}C$ for 18 - 24 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

 $\begin{array}{l} \hline \mbox{Dehydrated medium} \\ \mbox{Appearance: free-flowing, homogeneous} \\ \mbox{Color: off-wihte} \\ \hline \mbox{Prepared medium} \\ \mbox{Appearance: clear} \\ \mbox{Color: very light amber to reddish amber} \\ \mbox{Incubation conditions: } 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} / \mbox{Ioosen the caps} \\ \mbox{then subculture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subculture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subculture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subculture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subculture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subculture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subculture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subculture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subculture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subculture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subculture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subculture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subculture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subculture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subculture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subculture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subcutture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subcutture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \mbox{Hen subcutture onto MacConkey Agar} / 35 \pm 2^{\circ}\mbox{C} / 18 - 24 \mbox{ hours} \\ \hline \m$

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
Salmonella typhimurium	14028	50-100	good	colorless colonies
Escherichia coli	25922	50-100	partially inhibited	pink colonies with bile precipitates

• 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. * If stored for a long time dehydrated medium, the color of dehydrated medium and prepared medium may be darken. But performance of medium is not affected. The color change can be delayed during storage by sealing using a zipper bag, etc.

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 500 G

• MICROBIAL CULTURE IMAGES



Incubation conditions : 35 \pm 2°C / 18 - 24 hours



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