

Peptone Water



Medium used for the detection of indole production.

*Equally use with MFDS (MB-P1038K) and QIA (MB-P1038Q).

• CONTENTS (Liter)

Peptone	10.0 g
Sodium Chloride	5.0 g
Final pH = 7.2 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 15.0 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. Dispense in tubes. If necessary, dispense the medium before autoclave.

• INTERPRETATION

Peptone Water is a medium used for the detection of indole production. Peptone provides nitrogen, carbon, amino acids and minerals. Sodium chloride maintains osmotic balance.

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. Incubate at 35 - 37 °C for 24 ± 2 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: cream-white to light tan.

Prepared medium

Appearance: clear with no precipitate.

Color: light amber.

Incubation conditions: 35 - 37 °C / 24 ± 2 hours

Microorganism	ATCC	Inoculum CFU	Growth	Indole Reaction
<i>Escherichia coli</i>	25922	50-100	good	+
<i>Klebsiella pneumoniae</i>	13883	50-100	good	-
<i>Salmonella typhimurium</i>	14028	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. ISO 7251 Microbiology-General guidance for enumeration of E. coli – MPN Technique. 1993-12-15.
2. O.M. 11/10/78: Limiti di cariche microbiche tollerabili in determinate sostanze alimentari evande. Gazzetta Ufficiale della Repubblica Italiana, n°346 del 13/12/78.
3. Refer to the MFDS and QIA.

• PACKAGE

Cat. No : MB-P1038 Peptone Water	500 G
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