

MM0038

Peptone Water

Use and description:

A general purpose medium that can be used as a base of carbohydrate fermentation media. Peptone water pH 8.4 can be adjusted to be suitable for the cultivation of *Vibrio* spp. In the case of aerobic growth *Escherichia coli* can be detected by indole production.

Composition per liter:

Peptone.....10.0 g
Sodium chloride.....5.0 g

Final pH of the ready to use medium: 7.2 ± 0.2

Medium preparation:

Add 15.0 grams of dehydrated culture medium to 1 liter of distilled water. A pH indicator may be added to detect acid production from carbohydrate utilisation. Allow to dissolve then distribute into final containers. Sterilise by autoclaving for 15 min at 121°C.

Quality specifications:

Dehydrated medium: homogeneous, cream-white fine powder.

Ready to use medium: cream-white solution, clear without significant precipitate.

Microbiological response:

Organism	Result
<i>Escherichia coli</i> ATCC 25922	Good, growth
<i>Salmonella typhimurium</i> ATCC 14028	Good, growth

Storage:

Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in a dark, dry place. The dehydrated medium should not be used if there is any lump or if the color has changed from the original.

**For references please turn appendix 1.
For supplement details please turn appendix 2.**