

Marine Broth

Used for the recount and isolation of heterotropic marine bacteria

Formula in grams per liter:

Sodium Chloride	19,40	Magnesium Chloride	8,80
Bacteriological Peptone	5,00	Sodium Sulfate	3,24
Calcium Chloride	1,80	Yeast Extract	1,00
Potassium Chloride	0,55	Sodium Bicarbonate	0,16
Ferric Citrate	0,10	Potassium Bromide	0,08
Strontium Chloride	0,034	Boric Acid	0,022
Sodium Silicate	0,004	Sodium Flouride	0,0024
Ammonium Nitrate	0,0016	Disodium Phosphate	0,008

Final pH: 7,6 ± 0,2 at 25 °C

Preparation:

Suspend 40,0 grams of the medium in one liter of distilled water. Heat until boiling to dissolve completely. Dispense into appropriate containers. Sterilize by autoclaving at 121°C (15 lbs pressure) for 15 minutes. The colour of the prepared medium is clear transparent amber or slightly opalescent colour, may present a light precipitation.

Uses:

Marine Broth is similar to the formula for Marine Agar, lacking the agar.

It contains all the nutrients necessary for the cultivation of most marine bacteria.

Microbiological Tests:

Microorganisms	Growth
<i>Vibrio fischeri</i>	Good
<i>Vibrio harveyi</i>	Good

