

Marine Broth

For the isolation and enumeration of heterotrophic marine bacteria

Product Description

Name :	Marine Broth
Catalog Number :	A2WT30, 500 g
Storage:	at +2 to +4°C ^(L) Protect from light and moisture Once opened keep powdered medium closed to avoid hydration.

USES

Since the marine environment has environmental conditions completely different to those of other environments, its microflora is also very different. Marine Microorganisms are capable of surviving at very low temperatures and in high salinity levels.

MARINE BROTH contains all the nutrients necessary to cultivate the majority of marine bacteria, lacking the agar usual solidifier component.

Our Marine Broth is prepared according to ZoBell [\[ref\]](#), containing almost double the mineral content of sea water. The high salt content helps to simulate sea water. Bacteriological peptone provides nitrogen, vitamins, minerals and amino acids essential for growth. Yeast extract is a source of vitamins, particularly of the B-group. Bacteriological agar may be added as the solidifying agent.

PREPARATION

The dehydrated medium should be homogeneous, free-flowing and beige in color. If there are any physical changes, discard the medium.

Suspend 40.20 grams of the powder medium in one liter of distilled water.
Mix well and dissolve by heating with frequent agitation.
Boil for one minute until complete dissolution.
Dispense into appropriate containers and sterilize in autoclave at 121°C for 15 minutes.
The prepared medium should be stored at 2-8°C.
The color is amber, slightly opalescent. It may present a light precipitation.

Dispense 50 ml of the broth in 250 ml Erlenmeyer flasks. Inoculate and incubate at 20-25°C for 24-72 hours.

FORMULA (reconstituted)

Sodium Chloride : 19.4 g/l	Potassium Chloride : 0.55 g/l	Disodium Phosphate : 0.008 g/l
Magnesium Chloride : 8.8 g/l	Sodium Bicarbonate : 0.16 g/l	Sodium Silicate : 0.004 g/l
Bacteriological Peptone : 5 g/l	Ferric Citrate : 0.1 g/l	Sodium Fluoride : 0.0024 g/l
Sodium Sulfate : 3.24 g/l	Potassium Bromide : 0.08 g/l	Ammonium Nitrate : 0.0016 g/l
Calcium Chloride : 1.8 g/l	Strontium Chloride : 0.034 g/l	Final pH : 7.6 ± 0.2 at 25°C
Yeast Extract : 1 g/l	Boric Acid : 0.022 g/l	

FT-A2WT30

MICROBIOLOGICAL TEST

The following results were obtained in the performance of the medium from type cultures after incubation at a temperature of 20-25°C and observed after 24 - 72 hours.

Microorganisms	Growth
<i>Vibrio fischeri</i> ATCC 7744	Good
<i>Vibrio harveyi</i> ATCC 14126	Good

REFERENCES

J. Marine Research N:42. 1941. Limnology and Oceanography 5:78, 1960.
ZoBell, C.E. 1941. Studies on Marine Bacteria. I. The cultural requirements of heterotrophic aerobes. J.Mar.Res. 4:42-75.
Buck, J.D., and R.C. Cleverdon. 1960. The spread plate as a method for the enumeration of marine bacteria. Limnol. Oceanogr.
Weiner, R.M., A.M. Segall, and R.R. Colwell. 1985

Related / associated products and documents

- [Cell Culture Media Components](#) ^[PL]

e.g. Agar #291901, Terrific Broth #82111A, NZCYM Broth # N1473b, Marine Broth #-A2WT30, Brain Heart Infusion Broth JI0611, TCBS Agar #CJ2382, ...

- Other cell culture and assay reagents

[FT-N68091](#) Accumax, cells clumps dissociation reagent

[PH-BE007a](#) CosiGel & CosiMatrix 3D Cell Culture

See [Product highlights](#), [BioSciences Innovations catalogue](#) and [e-search tool](#).

Ordering information

For any information, please ask at uptima@interchim.com or at Uptima / Interchim; Hotline : +33(0)4 70 03 73 06

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