

514a: HALF STRENGTH BACTO MARINE BROTH

This recipe contains strain-specific modifications for *Boseongicola aestuarii* DSM 110602 *

Final pH: 7.6

Final volume: 1000 ml

Main sol. 514	500.00	ml
Distilled water	500.00	ml
Agar, for solid medium	15.00	g/l
Trace element solution SL-10	1.00	ml

- 1/2 strength medium 514. If using Difco Bacto Marine Broth use 18.7 g/l.
- Final pH 7.6. The medium may be solidified by adding 15 g/l agar.

* Add 1 ml/l SL-10 solution (DSMZ medium 1426)

Main sol. 514 (from medium 514)

Bacto peptone	5.00	g
Yeast extract (Bacto)	1.00	g
Fe(III) citrate	0.10	g
NaCl	19.45	g
MgCl ₂ (anhydrous)	5.90	g
Na ₂ SO ₄	3.24	g
CaCl ₂	1.80	g
KCl	0.55	g
NaHCO ₃	0.16	g
KBr	0.08	g
SrCl ₂	34.00	mg
H ₃ BO ₃	22.00	mg
Na-silicate	4.00	mg
NaF	2.40	mg
(NH ₄)NO ₃	1.60	mg
Na ₂ HPO ₄	8.00	mg
Distilled water	1000.00	ml

Final pH should be 7.6 ± 0.2 at 25°C. If using the complete medium from Difco add 37.40 g to 1 litre water.

Trace element solution SL-10* (from medium 320)

HCl (25%)	10.00	ml
FeCl ₂ x 4 H ₂ O	1.50	g
ZnCl ₂	70.00	mg



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MnCl ₂ x 4 H ₂ O	100.00	mg
H ₃ BO ₃	6.00	mg
CoCl ₂ x 6 H ₂ O	190.00	mg
CuCl ₂ x 2 H ₂ O	2.00	mg
NiCl ₂ x 6 H ₂ O	24.00	mg
Na ₂ MoO ₄ x 2 H ₂ O	36.00	mg
Distilled water	990.00	ml

First dissolve FeCl₂ in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.00 ml.