

**1663. BSM medium**

NaCl	3.62	g
K <sub>2</sub> HPO <sub>4</sub>	0.26	g
(NH <sub>4</sub> )Cl	0.08	g
NaNO <sub>3</sub>	0.85	g
Na <sub>2</sub> SO <sub>4</sub>	0.05	g
Trace element solution (see below)	1.00	ml
Vitamin solution (see medium 141)	10.00	ml
Na-DL-lactate	1.12	g
Yeast extract	0.20	g
Distilled water	936.50	ml
NaHCO <sub>3</sub> (8%)	52.50	ml

Dissolve ingredients (except vitamins and trace elements) in distilled water; boil for 1- 2 minutes and cool down to room temperature under 100% N<sub>2</sub> gas, dispense in culture vessels and autoclave. After sterilization add NaHCO<sub>3</sub>, vitamins, and trace elements from sterile anoxic stock solutions prepared under 100% N<sub>2</sub>. Adjust pH to 8.2 and add sodium sulfide (Na<sub>2</sub>S) from a sterile anoxic solution to achieve a final concentration of 100 µM prior inoculation.

*Trace element solution*

HCl (25%; 7.7 M)	10.00	ml
FeCl <sub>2</sub> x 4 H <sub>2</sub> O	1.50	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	3.00	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.10	g
ZnCl <sub>2</sub>	70.00	mg
MnCl <sub>2</sub> x 4 H <sub>2</sub> O	100.00	mg
H <sub>3</sub> BO <sub>3</sub>	6.00	mg
CoCl <sub>2</sub> x 6 H <sub>2</sub> O	190.00	mg
CuCl <sub>2</sub> x 2 H <sub>2</sub> O	2.00	mg
NiCl <sub>2</sub> x 6 H <sub>2</sub> O	24.00	mg
Na <sub>2</sub> MoO <sub>4</sub> x 2 H <sub>2</sub> O	36.00	mg
Distilled water	990.00	ml

First dissolve FeCl<sub>2</sub> in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.0 ml.