

Supplementary File 1: Bold's Basal Medium (BBM) Recipe (Bischoff & Bold 1963)**a. Composition of BBM medium in 1000 ml**

Quantity	Component	Stock Solution
10 ml	Macronutrients	(see recipe below)
1 ml	Alkaline EDTA stock solution	(see recipe below)
1 ml	Acidified iron stock solution	(see recipe below)
1 ml	Boron stock solution	(see recipe below)
1 ml	Trace metals solution	(see recipe below)
Bring up to 1000 ml	Distilled water	-

b. Composition of macronutrients in 1000 ml

Component	Stock solution (g/L)	Quantity used	Concentration in final medium (M)
NaNO ₃	25.00	10 ml	2.94 x 10 ⁻³
CaCl ₂ ·2H ₂ O	2.50	10 ml	1.70 x 10 ⁻⁴
MgSO ₄ ·7H ₂ O	7.50	10 ml	3.04 x 10 ⁻⁴
K ₂ HPO ₄	7.50	10 ml	4.31 x 10 ⁻⁴
KH ₂ PO ₄	17.50	10 ml	1.29 x 10 ⁻³
NaCl	2.50	10 ml	4.28 x 10 ⁻⁴
Distilled water	-	Bring up to 1000 ml	-

c. Composition of alkaline EDTA stock solution in 1000 ml

Component	Stock solution (g/L)	Quantity used	Concentration in final medium (M)
EDTA·Na ₂	50.00	-	1.71 x 10 ⁻⁴
KOH	31.00	-	5.53 x 10 ⁻⁴
Distilled water	-	Bring up to 1000 ml	-

d. Composition of acidified iron stock solution in 1000 ml

Component	Stock solution (g/L)	Quantity used	Concentration in final medium (M)
FeSO ₄ ·7H ₂ O	4.98	-	1.79 x 10 ⁻⁵
H ₂ SO ₄	-	1 ml	-
Distilled water	-	Bring up to 1000 ml	-

e. Composition of boron stock solution in 1000 ml

Component	Stock solution (g/L)	Quantity used	Concentration in final medium (M)
H ₃ BO ₃	11.42	-	1.85 x 10 ⁻⁴
Distilled water	-	Bring up to 1000 ml	-

f. Composition of trace metals solution in 1000 ml

Component	Stock solution (g/L)	Quantity used	Concentration in final medium (M)
ZnSO ₄ ·7H ₂ O	8.82	-	3.07 x 10 ⁻⁵
MnCl ₂ ·4H ₂ O	1.44	-	7.28 x 10 ⁻⁶
MoO ₃	0.71	-	4.93 x 10 ⁻⁶
CuSO ₄ ·5H ₂ O	1.57	-	6.29 x 10 ⁻⁶
Co(NO ₃) ₂ ·6H ₂ O	0.49	-	1.68 x 10 ⁻⁶
Distilled water	-	Bring up to 1000 ml	-