Product Information Sheet

B1650
Bold's Basal Medium, 50x

Synonym: BBM

Properties:

Form: Liquid
Appearance: Clear with Light Green to Purple Tint
Application: Freshwater algal culture
Solubility: Miscible with Water
Typical Working Concentration: 20.0 mL/L
Storage Temp: 2-6°C
Other Notes: Approx. Solution pH is 4.2 +/- 0.5
It is suggested not to autoclave this product in its 50x concentrate form, as precipitation may result. Product may develop a purple tint over time.

Formula (mg/L):

Boric Acid	571	Manganese Chloride•4H2O	72
Calcium Chloride, Anhydrous	943.6	Sodium Molybdate	59.7
Cobalt Nitrate•6H2O	24.5	Potassium Hydroxide	1550
Cupric Sulfate•5H2O	78.5	Potassium Phosphate, Dibasic	3750
EDTA, Disodium Salt	3180.5	Potassium Phosphate, Monobasic	8750
Ferrous Sulfate•7H2O	249	Sodium Chloride	1250
Magnesium Sulfate, Anhydrous	1831.3	Sodium Nitrate	12500
		Zinc Sulfate•7H2O	441

Application Notes:

Bold's Basal Medium (BBM) is a freshwater algae medium that has been used to grow a variety of green algal cultures (e.g. *Trichosarcina, Chlorococcum, and Chlorella*) without the need for soil-extract or vitamins (Brown *et al.,* 1964; Nichols and Bold, 1965). The predominantly inorganic nature of this medium facilitates itself as an axenic-culture maintenance medium (Nichols and Bold, 1965).

Media Preparation:
The standard medium is prepared as follows: Add 20.0 mL of the BBM 50x concentrate to ~0.98 liters of DI water. The final solution pH is adjusted to 6.6 +/- 0.1 with KOH (Stein, 1973).

References:

Brown, R.M., Larson, D.A., and H.C. Bold. (1964) *Science* 143(3606), 583-585.
Nichols H.W., and H.C. Bold (1965) *J. Phycology* 1, 34-38.
Stein J. (1973) Handbook of Phycological methods. Culture Methods and Growth Measurements. Cambridge University Press. 448 pp.

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