

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•4H ₂ O	72
Calcium Chloride, Anhydrous	943.6	Sodium Molybdate	59.7
Cobalt Nitrate•6H ₂ O	24.5	Potassium Hydroxide	1550
Cupric Sulfate•5H ₂ O	78.5	Potassium Phosphate, Dibasic	3750
EDTA, Disodium Salt	3180.5	Potassium Phosphate, Monobasic	8750
Ferrous Sulfate•7H ₂ O	249	Sodium Chloride	1250
Magnesium Sulfate, Anhydrous	1831.3	Sodium Nitrate	12500
		Zinc Sulfate•7H ₂ O	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.

India Contact

Life Technologies (India) Pvt Ltd.

306, Agarwal City Mall, Road 44, Pitampura, Delhi - 110034 (India)

Tel: +91-11-4220-8000; 4220-8111; 4220-8222 Fax: +91-11-4220-8444, Mobile: +91-98105-21400

Email - customerservice@lifetechindia.com | customerservice@atzlabs.com