Bold's Basal Medium (BBM)

Product ID: **B1675**

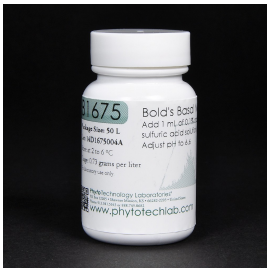
Introduction

Description: 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).

Requires 1 mL/L Sulfuric Acid, 0.1% (v/v) (Product # S7664).

Product Infomation

MSDS



Product Information

Solubility	Water
Use With	S7664
Physical Form	Solid
Solutions Available	B1411 (50x)
Storage Temp.	2-6 °C
Grams of powder to prepare 1 Liter	0.705
Other Notes	Add 1.0 mL of 0.1% Sulfuric Acid (S7664) to complete this medium.
UPC / SKU	B1675

B1675 Bold's Basal Medium

Synonyms: BBM

PROPERTIES

Form: Powder

Appearance: Off-White to Gray/Green

Application: Freshwater algal culture

Solubility: Soluble in Water

Typical Working Concentration: 0.705 g/L

Storage Temp: 2-6°C

Storage Temp of Stock Solution: 2-6°C

Other Notes: In order to conform with the original reference, 1.0 mL of 0.1% Sulfuric Acid Solution should be added per liter of this medium when prepared at a 1x concentration.
Product or solutions may develop a purple tint over time.

Formula (mg/L)	
Boric Acid	11.42
Manganese Chloride.4H2O	1.44
Calcium Chloride, Anhydrous	18.87
Potassium Hydroxide	31
Cobalt Nitrate.6H2O	0.49
Potassium Phosphate, Dibasic	75
Cupric Sulfate.5H2O	1.57
Potassium Phosphate, Monobasic	175
EDTA, Disodium Salt	63.61
Sodium Chloride	25
Ferrous Sulfate.7H2O	4.98
Sodium Molybdate	1.19
Magnesium Sulfate, Anhydrous	36.63
Sodium Nitrate	250
Zinc Sulfate.7H2O	8.82

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).

Other algae species commonly grown in Bold's Basal Medium:
Zyngogonium ericetorum (Stancheva et al., 2014)

Media Preparation:
The standard medium is prepared as follows: Add 1.0 mL of 0.1% Sulfuric Acid solution to 1 liter of DI water along with 0.705 g of B1675. 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.
Stancheva, R., Hall, J. D., Herburger, K., Lewis, L. A., McCourt, R. M., Sheath, R. G., & Holzinger, A. (2014).
Phylogenetic position of Zygogonium ericetorum (Zygnematophyceae, Charophyta) from a high alpine habitat and ultrastructural characterization of unusual aplanospores. Journal of Phycology, 50(5), 790-803.
Stein J. (1973) Handbook of Phycological methods. Culture Methods and Growth Measurements. Cambridge University Press. 448 pp.

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