

Algal Collection at University Federico II

2 - Bold's Basal Medium (BBM) with vitamins (BBM + V) (from Bischoff & Bold 1963, modified after Starr and Zeikus 1993)

General purpose freshwater medium used for axenic cultures.

Preparation: To 940 mL of de-ionized or distilled water, add:

		Stock solutions
	ml	g/L
NaNO ₃	10	25
CaCl ₂ 2H ₂ O	10	2.5
MgSO ₄ 7H ₂ O	10	7.5
K ₂ HPO ₄ 3H ₂ O	10	7.5
KH ₂ PO ₄	10	17.5
NaCl	10	2.5

The result is 1000 ml of bristol's solution, to which one adds the following: Add cold sterilized vitamin and metal solutions under sterile conditions after autoclaving

stock solution	ml	g / 100ml H ₂ O
thiamine	1	0.1
biotin	1	25 10 ⁻⁶
vitamin B ₁₂	1	15 ⁻¹⁰⁻⁶
PIV metal solution*	6	

^{*}PIV metal solution.

To 1000 ml of de-ionized or distilled water, add 0.750 g of Na_2EDTA , and dissolve fully. Add the following salts in the order and amounts indicated:

FeCl ₃ 6H ₂ O	97 mg
MnCl ₂ 4H ₂ O	41 mg
ZnCl ₂	5 mg
CoCl ₂ 6H ₂ O	2 mg
Na ₂ MoO ₄ 2H ₂ O	4 mg

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