

1732. Z Medium for Cyanobacteria

Composition:

NaNO ₃	480.0 mg
Ca(NO ₃) ₂ x 4 H ₂ O	59.0 mg
K ₂ HPO ₄	31.0 mg
MgSO ₄ x 7 H ₂ O	25.0 mg
Na ₂ CO ₃	21.0 mg
Fe-EDTA complex *	10.0 ml
Micronutrient solution **	0.08 ml
Deionized or distilled water	1000.0 ml

* Fe-EDTA complex

Combine in deionized or distilled water and make up to 500 ml:

FeCl ₃ x 6 H ₂ O	135.0 mg
NaEDTA	186.0 mg

** Micronutrient solution (after H. Gaffron)

Add to 100 ml of deionized or distilled water:

H ₃ BO ₃	310.0 mg
MnSO ₄ x H ₂ O	223.0 mg
Na ₂ WO ₄ x 2 H ₂ O	3.3 mg
(NH ₄) ₆ Mo ₇ O ₂₄ x 4 H ₂ O	8.8 mg
KBr	11.9 mg
KJ	8.3 mg
ZnSO ₄ x 7 H ₂ O	28.7 mg
Cd(NO ₃) ₂ x 4 H ₂ O	15.4 mg
Co(NO ₃) ₂ x 6 H ₂ O	14.6 mg
CuSO ₄ x 5 H ₂ O	12.5 mg
NiSO ₄ (NH ₄) ₂ SO ₄ x 6 H ₂ O	19.8 mg
Cr(NO ₃) ₃ x 7 H ₂ O	3.7 mg
VO ₂ SO ₄ x 2 H ₂ O	2.0 mg
Al ₂ (SO ₄) ₃ K ₂ SO ₄ x 24 H ₂ O	47.4 mg

Reference: A. Zehnder, EAWAG, ETH Zuerich, Switzerland