

## 1727. Z45/4 Medium for Cyanobacteria

### Composition:

$\text{KH}_2\text{PO}_4$	41.0 mg
$\text{K}_2\text{HPO}_4$	17.0 mg
$\text{CaCl}_2 \times 2 \text{H}_2\text{O}$	37.0 mg
$\text{MgSO}_4 \times 7 \text{H}_2\text{O}$	25.0 mg
Fe-EDTA complex *	10.0 ml
Micronutrient solution **	0.06 ml
Deionized or distilled water	1000.0 ml

### \* Fe-EDTA complex

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

$\text{FeCl}_3 \times 6 \text{H}_2\text{O}$	135.0 mg
NaEDTA	186.0 mg

### \*\* Micronutrient solution (after H. Gaffron)

Add to 100 ml of deionized or distilled water:

$\text{H}_3\text{BO}_3$	310.0 mg
$\text{MnSO}_4 \times \text{H}_2\text{O}$	223.0 mg
$\text{Na}_2\text{WO}_4 \times 2 \text{H}_2\text{O}$	3.3 mg
$(\text{NH}_4)_6\text{Mo}_7\text{O}_{24} \times 4 \text{H}_2\text{O}$	8.8 mg
KBr	11.9 mg
KJ	8.3 mg
$\text{ZnSO}_4 \times 7 \text{H}_2\text{O}$	28.7 mg
$\text{Cd}(\text{NO}_3)_2 \times 4 \text{H}_2\text{O}$	15.4 mg
$\text{Co}(\text{NO}_3)_2 \times 6 \text{H}_2\text{O}$	14.6 mg
$\text{CuSO}_4 \times 5 \text{H}_2\text{O}$	12.5 mg
$\text{NiSO}_4(\text{NH}_4)_2\text{SO}_4 \times 6 \text{H}_2\text{O}$	19.8 mg
$\text{Cr}(\text{NO}_3)_3 \times 7 \text{H}_2\text{O}$	3.7 mg
$\text{VO}_2\text{SO}_4 \times 2 \text{H}_2\text{O}$	2.0 mg
$\text{Al}_2(\text{SO}_4)_3 \times 24 \text{H}_2\text{O}$	47.4 mg

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