

Spirulina medium

(Modified: Aiba S. and Ogawa T., 1977. Assessment of growth yield of a blue-green alga, *Spirulina platensis*, in axenic and continuous culture. *J Gen Microbiol.* 102: 179-182.)

Autoclave solution A and B separately.

A

Minerals	Quantity (g/L)	Molarity (mM)
NaHCO ₃	13.61	162
Na ₂ CO ₃	4.03	40
K ₂ HPO ₄ · 3H ₂ O	0.84	4

Adjust to 500mL with mQ water and autoclave.

B

Minerals	Stock Solutions (g/L)	Quantity (mL Stock/L Media)	Molarity (mM)
NaNO ₃	150	16.6	30
K ₂ SO ₄	100	1	0.6
NaCl	250	4	20
MgSO ₄ · 7H ₂ O	7.5	26.6	0.8
CaCl ₂ · 2H ₂ O	3.6	11.1	0.002
SchlösserMicronutrient Solution	6 mL	-	-
ChuMicronutrient Solution	1 mL	-	-

Adjust to 500mL with mQ water and autoclave.

After cooling, mix solution A and B and add the following filter sterilized (0.2 µm) compounds to complete the media:

Minerals	Stock solutions (g/L)	Quantity (mL Stock/L Media)
Fe-NH ₄ -citrate	6	0.25
Vitamin B12 (Cyanocobalamin)	0.02	1

ChuMicronutrient Solution:

Trace metals	Quantity (g/L)
$\text{Na}_2\text{EDTA} \cdot 2\text{H}_2\text{O}$	0.05
H_3BO_3	0.62
$\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	0.02
$\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$	0.04
$\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$	0.02
$\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$	0.01
$\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$	0.01

SchlösserMicronutrient Solution:

Trace metals	Quantity (g/L)
$\text{Na}_2\text{EDTA} \cdot 2\text{H}_2\text{O}$	0.75
$\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$	0.97
$\text{MnCl}_2 \cdot 4\text{H}_2\text{O}$	0.04
$\text{ZnCl}_2 \cdot 6\text{H}_2\text{O}$	0.005
$\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$	0.002
$\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$	0.004