

1722. NEPCC

Minerals	g/L [g]
NaCl	20,8
MgCl ₂ * 6H ₂ O	9,6
KCl	0,6
Na ₂ SO ₄	3,5
CaCl ₂ * 2 H ₂ O	0,99

Adjust to 1000mL with mQ water and autoclave.

After cooling, add the following filter sterilized components

Minerals	Volumen/L [mL]	Stock Solutions [g/L]
Enrichment St.1	1,0	-
Enrichment St.2	1,0	-
Enrichment St.3	1,0	-
Enrichment St.4	1,0	-
Enrichment St.5	1,0	-
Enrichment St.6	0,1	-
Supplement I	1,0	-
Supplement I	1,0	-
Supplement I	1,0	-

Adjust pH to 8,0-8,2 with sterile 1M HCl.

Enrichment Stocks (one on one, autoclave, add sterile after autoclaving)

		[g/100mL]	[ml/L]	
Enr. St. 1	NaNO ₃	4,7	-	
Enr. St. 2	SrCl ₂ * 6H ₂ O	2,1	-	
Enr. St. 3	Na ₂ SiO ₃ * 5H ₂ O	2,24	-	
Enr. St. 4	H ₃ BO ₃	2,5	-	
Enr. St. 5	Na ₂ EDTA * 2H ₂ O	0,186	4,65	0,4g/10mL stock sol.
	ZnCl ₂	0,0327	2,73	1,2g/L stock sol.
	CoCl ₂ * 6H ₂ O	0,0202	0,337	6g/L stock sol.
	Na ₂ MoO ₄ * 2H ₂ O	0,126	2,1	6g/L stock sol.
	MnCl ₂ * 4H ₂ O	0,475	11,88	4g/L stock sol.
Enr. St. 6	Na ₂ SeO ₃ * 5H ₂ O	0,173	-	

→ Enr. St. 5 solve in 80ml H₂O, adjust pH 6 with 1M NaOH, fill up to 100ml.

Supplement Solutions

Supplement I	[quantity/450mL]	
Na ₂ EDTA*2H ₂ O	3,72g	first EDTA, second FeCl ₃
FeCl ₃ * 6H ₂ O	1,76	adjust to pH 6

and

NaF	3g	
KBr	85g	dissolve both salts in 450 ml

Combine both solutions and fill up to 1000mL, autoclave and add sterile.

Supplement II	[quantity/100mL]	
NaHCO ₃	10g	saturated solution, after that
Na ₂ -Glycero-phosphate	0,6g	dissolve in saturated NaHCO ₃

autoclave, add steril after autoclaving

Supplement III	[quantity/100mL]	
Thiamin HCl	20mg	2ml from 10g/L Stock
Vitamin B12	0,4mg	2ml from 200mg/L Stock
Biotin	0,2mg	0,4ml from 500mg/100mL Stock

add steril after steril-filtration (no autoclaving)