

Trace element solution

Materials	g/mol	gram	Further materials
1. Na ₂ EDTA.2H ₂ O	372.24	2.517	- 22.5mL HCl
2. MgSO ₄ .7H ₂ O	246.47	24.89	- 1 liter dH ₂ O
3. MnSO ₄ .H ₂ O	223.08	0.022	
4. NaCl	58.44	0.058	
5. FeCl ₂ .4H ₂ O	198.81	0.107	
6. CoCl ₂ .6H ₂ O	237.93	0.119	
7. ZnSO ₄ .5H ₂ O	287.54	0.029	
8. CuSO ₄ .5H ₂ O	249.68	0.005	
9. H ₃ BO ₃	61.83	0.35	
10. Na ₂ MoO ₄ .2H ₂ O	241.95	0.094	
11. NiCl ₂ .6H ₂ O	237.7	0.119	
12. Na ₂ SeO ₄	188.9	0.028	

- Flask 1: Dilute the FeCl₂.4H₂O in 22.5mL HCl
- Flask 2: Place the flask on a stirrer with a stirring rod in it
- Chemicals are diluted in 1 liter dH₂O
- Adding order according to the material list 1,2,3,4,6,7,8,9, 10,11,12 (except for number 5)
- Before adding the next chemical wait 1-5 min in between until dissolved
- At the end, add the in HCl diluted FeCl₂.4H₂O (number 5)