

WC+ Medium Recipe

Component list is the same as WC Medium with the following exceptions:

- The addition of 1 mL of DYV Metal Solution
- Increase in the volume of $\text{Na}_2\text{SiO}_3 \cdot 9\text{H}_2\text{O}$ stock added to 2 mL

Directions

For 1 L Total

1. To approximately 900 mL of dd- H_2O , add the following components in the order listed (not including the vitamins) while stirring continuously.
2. Adjust the pH to 7.8
3. Transfer the contents of the beaker to a 1-Liter graduated cylinder and bring the total volume to 1.0 Liter with dd- H_2O .
4. Add the sterile vitamin components and mix well.
5. **Do not autoclave medium! Filter sterilize only.**
6. Store at refrigerator temperature.

#	Component	Amount	Stock Solution Concentration	Final Concentration
1	$\text{Na}_2\text{SiO}_3 \cdot 9\text{H}_2\text{O}$ (Sigma 307815)	2 mL/L	28.42 g/L	0.2 mM
2	NaNO_3 (Fisher BP360-500)	1 mL/L	85.1 g/L	1 mM
3	$\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$ (Sigma C-3881)	1 mL/L	36.76 g/L	0.25 mM
4	$\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ (Sigma 230391)	1 mL/L	36.97 g/L	0.15 mM
5	NaHCO_3 (Fisher S 233)	1 mL/L	12.6 g/L	0.15 mM
6	K_2HPO_4 (Sigma P 3786)	1 mL/L	8.71 g/L	0.05 mM
7	H_3BO_3 (Baker 0084)	1 mL/L	24 g/L	0.39 mM
8	WC Trace Elements Solution	1 mL/L		
9	DYV Metal Solution	1 mL/L		
10	Vitamin B ₁₂	1 mL/L		
11	Thiamine Vitamin Solution	1 mL/L		
12	Biotin Vitamin Solution	1 mL/L		