

WC Medium Recipe

Directions

For 1 L Total:

1. To approximately 900 mL of dd-H₂O, 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-H₂O.
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 | NaNO ₃ (Fisher BP360-500) | 1 mL/L | 85.1 g/L | 1 mM |
| 2 | CaCl ₂ ·2H ₂ O (Sigma C-3881) | 1 mL/L | 36.76 g/L | 0.25 mM |
| 3 | MgSO ₄ ·7H ₂ O (Sigma 230391) | 1 mL/L | 36.97 g/L | 0.15 mM |
| 4 | NaHCO ₃ (Fisher S 233) | 1 mL/L | 12.6 g/L | 0.15 mM |
| 5 | Na ₂ SiO ₃ ·9H ₂ O (Sigma 307815) | 1 mL/L | 28.42 g/L | 0.1 mM |
| 6 | K ₂ HPO ₄ (Sigma P 3786) | 1 mL/L | 8.71 g/L | 0.05 mM |
| 7 | H ₃ BO ₃ (Baker 0084) | 1 mL/L | 24 g/L | 0.39 mM |
| 8 | WC Trace Elements Solution | 1 mL/L | | |
| 9 | Vitamin B₁₂ | 1 mL/L | | |
| 10 | Thiamine Vitamin Solution | 1 mL/L | | |
| 11 | Biotin Vitamin Solution | 1 mL/L | | |

