

N/20 Medium Recipe

Directions

For 1 L Total

1. To approximately 850 mL of dH₂O, add each of the components in the order specified (except vitamins) while stirring continuously.
2. Bring the total volume to 1 L with dH₂O.
3. Cover and autoclave medium.
4. When cooled add vitamins.
5. Store at refrigerator temperature.

| # | Component | Amount | Stock Solution Concentration | Final Concentration |
|----|---|----------|---------------------------------|---------------------|
| 1 | KH ₂ PO ₄ (Sigma P 0662) | 2 mL/L | 17.5 g/200 mL dH ₂ O | 1.29 mM |
| 2 | NaNO ₃ (Fisher BP360-500) | 100 µL/L | 25 g/200 mL dH ₂ O | 0.14 mM |
| 3 | K ₂ HPO ₄ (Sigma P 3786) | 1 mL/L | 15 g/200 mL dH ₂ O | 0.43 mM |
| 4 | NaCl (Fisher S271-500) | 1 mL/L | 5 g/200 mL dH ₂ O | 0.43 mM |
| 5 | CaCl ₂ ·2H ₂ O (Sigma C-3881) | 1 mL/L | 5 g/200 mL dH ₂ O | 0.17 mM |
| 6 | MgSO ₄ ·7H ₂ O (Sigma 230391) | 1 mL/L | 15 g/200 mL dH ₂ O | 0.3 mM |
| 7 | P-IV Metal Solution | 6 mL/L | | |
| 8 | Sodium acetate (Fisher BP 333) | 0.67 g/L | | 8.12 mM |
| 9 | TES buffer (Sigma T 1375) | 0.92 g/L | | 4.01 mM |
| 10 | Vitamin B₁₂ | 1 mL/L | | |
| 11 | Thiamine Vitamin Solution | 1 mL/L | | |