

# CR1+ Diatom Medium Recipe

## Directions

The medium is prepared on a tube by tube basis, using 15 mL glass tubes, stoppered with rubber-lined screw caps.

Add the components in the following order. Once soil and liquid are mixed, the media must be processed (pasteurized or autoclaved) within 6 hrs. For routine maintenance and transfer, autoclaved media for 15 min, since transfer material typically contains organics and/or bacteria needed for algal growth. In pasteurization, tubes are brought to just over 98°C, and held at that temperature for 2 hrs. They are then allowed to cool to room temperature for 20-24 hrs. This process is repeated for three successive days. It is imperative that media (pasteurized or autoclaved) be allowed to gas-equilibrate for 2 days prior to use.

Just before use add 1 drop of Pasteurized Seawater to make medium complete.

| # | Component            | Amount | Stock Solution Concentration | Final Concentration |
|---|----------------------|--------|------------------------------|---------------------|
| 1 | CR1 Soil             | 1 cc   |                              |                     |
| 2 | dH <sub>2</sub> O    | 12 mL  |                              |                     |
| 3 | Pasteurized Seawater | 1 drop |                              |                     |