

CHEV 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.

#	Component	Amount	Stock Solution Concentration	Final Concentration
1	CR1 Soil	1 cc		
2	MgCO ₃ (MCIB CB486)	0.5 mg/12 mL		0.5 mM
3	dH ₂ O	11 mL		
4	Pasteurized Seawater	1 mL		