

# Soil Extract + Sodium Metasilicate Recipe

## Directions

Modification of Soil Extract Medium for diatoms.

For 1 L Total

1. Prepare 1 L of Bristol Medium and thoroughly mix.
2. Discard 40 mL of the Bristol Medium.
3. Add 40 mL of previously prepared GR+ Medium [Note: The GR+ should be filtered to remove soil particles].  
\* or For 1.5% agar medium add 15 g of agar into the flask; do not mix.
4. Cover and autoclave medium.
5. When cooled, add filter sterilized sodium metasilicate.  
\*For agar medium, add sodium metasilicate, mix, and dispense before agar solidifies.
6. Store at refrigerator temperature.

#	Component	Amount	Stock Solution Concentration	Final Concentration
1	Bristol Medium	960 mL		
2	Soilwater: GR+ Medium	40 mL of supernatant		
3	Sodium Metasilicate	1 mL	200 mM	200 $\mu$ M