WC Trace Elements Solution Recipe

Directions

Algal Trace Elements Solution for WC Medium.

1. To approximately 950 mL of dd-H_2O, first dissolve EDTA and then add the remaining components in order.
2. Transfer the contents of the beaker to a 1-Liter graduated cylinder and bring the total volume to 1.0 Liter with dd-H_2O.
3. Store in the refrigerator.

#	Component	Amount	Stock Solution Concentration	Final Concentration
1	$Na_2EDTA{\cdot}2H_2O$ (Sigma ED255)	4.36 g/L		11.7 µM
2	$FeCl_3{\cdot}6H_2O$ (Sigma F-1513)	3.15 g/L		11.7 µM
3	$CuSO_4{\cdot}5H_2O$ (MCIB 3M11)	1 mL/L	2.5 g/L	10 nM
4	$ZnSO_4{\cdot}7H_2O$ (Sigma Z 0251)	1 mL/L	22 g/L	76.5 nM
5	$CoCl_2{\cdot}6H_2O$ (Sigma C-3169)	1 mL/L	10 g/L	42 nM
6	$MnCl_2{\cdot}4H_2O$ (Baker 2540)	1 mL/L	180 g/L	910 nM
7	$Na_2MoO_4{\cdot}2H_2O$ (J.T. Baker 3764)	1 mL/L	6.3 g/L	26 nM
8	Na_3VO_4 (Sigma 450243)	1 mL/L	18 g/L	98 nM