

BG-11 Trace metal mix A5 Version 2

Dr. Steven Wilhelm

Abstract

Please contact Dr. Steven Wilhelm (wilhelm@utk.edu) for additional information regarding this protocol.

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Protocol

Step 1.

Add 1 L Milli-Q H₂O to a clean media bottle

Step 2.

Add 2.86 g H₃BO₃



REAGENTS

Boric acid BP1681 by [Fisher Scientific](#)

Step 3.

Add 1.81 g MnCl₂*4H₂O



REAGENTS

Manganese chloride 7773-01-5 by [Fisher Scientific](#)

Step 4.

Add 0.222 g ZnSO₄*7H₂O



REAGENTS

✓ Zinc sulfate by Contributed by users

Step 5.

Add 0.39 g NaMoO₄*2H₂O



REAGENTS

✓ Sodium molybdate dihydrate by Contributed by users

Step 6.

Add 0.079 g $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$



REAGENTS



Copper Sulfate [View](#) by [P212121](#)

Step 7.

Add 49.4 mg $\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$



REAGENTS

Cobalt (II) nitrate hexahydrate 10026-22-9 by [Fisher Scientific](#)

Step 8.

Autoclave at 121°C for 20 m