## **BG-11 Medium Recipe**

## **Directions**

Improved recipe as of March 2009

For 1 L Total

## Liquid media:

- 1. To approximately 900 mL of dH<sub>2</sub>O add the first 9 components in the order specified while stirring continuously.
- 2. Bring total volume to 1 L with  $dH_2O$ .
- 3. Cover and autoclave medium.
- 4. Allow to cool then store at refrigerator temperature.

## Agar media:

- 1. To approximately 400 mL of dH<sub>2</sub>O add the first 9 components in the order specified while stirring continuously.
- 2. Bring total volume to 500 mL with  $dH_2O$ .
- 3. In a separate container add 15 g of agar to 500 mL of dH<sub>2</sub>O.
- 4. Cover and autoclave both solutions.
- 5. In a water bath allow both solutions to cool to 45-50°C.
- 6. Add sterile Sodium Thiosulfate (Component 10) to agar solution and mix well.
- 7. Combine both agar and liquid solutions, mix well. Note the agar can solidify quickly.
- 8. Allow to cool then store at refrigerator temperature.

#	Component	Amount	Stock Solution Concentration	Final Concentration
1	NaNO <sub>3</sub> (Fisher BP360-500)	10 mL/L	30 g/200 mL dH20	17.6 mM
2	K <sub>2</sub> HPO <sub>4</sub> (Sigma P 3786)	10 mL/L	0.8 g/200 mL dH20	0.23 mM
3	MgSO <sub>4</sub> ·7H <sub>2</sub> O (Sigma 230391)	10 mL/L	1.5 g/200 mL dH20	0.3 mM
4	CaCl <sub>2</sub> ·2H <sub>2</sub> O (Sigma C-3881)	10 mL/L	0.72 g/200 mL dH20	0.24 mM
5	Citric Acid·H <sub>2</sub> O (Fisher A 104)	10 mL/L	0.12 g/200 mL dH20	0.031 mM

6	Ferric Ammonium Citrate	10 mL/L	0.12 g/200 mL dH20	0.021 mM
7	Na <sub>2</sub> EDTA·2H <sub>2</sub> O (Sigma ED255)	10 mL/L	0.02 g/200 mL dH20	0.0027 mM
8	Na <sub>2</sub> CO <sub>3</sub> (Baker 3604)	10 mL/L	0.4 g/200 mL dH20	0.19 mM
9	BG-11 Trace Metals Solution	1 mL/L		
10	Sodium Thiosulfate Pentahydrate (agar media only,sterile) (Baker 3946)	1 mL/L	49.6 g/200 mL dH20	1 mM