

**1275. GEORGFUCHSIA MEDIUM****Solution A:**

KH <sub>2</sub> PO <sub>4</sub>	0.65	g
Na <sub>2</sub> HPO <sub>4</sub>	0.20	g
Resazurin	0.50	mg
Trace element solution SL-10 (see below)	1.00	ml
Selenite-Tungstate solution (see below)	4.00	ml
Distilled water	900.00	ml

**Solution B:**

CaCl <sub>2</sub>	0.11	g
MgCl <sub>2</sub>	0.10	g
Distilled water	50.00	ml

Add 1 ml vitamin solution (see below) after autoclaving and cooling.

**Solution C:**

NH <sub>4</sub> HCO <sub>3</sub>	0.44	g
NaHCO <sub>3</sub>	3.73	g
L-Cystein HCl x H <sub>2</sub> O	0.03	g
Distilled water	50.00	ml

**Solution D:**

NaNO <sub>3</sub>	3.40	g
Distilled water	100.00	ml

**Solution E:**

Sterile distilled water gassed with dinitrogen, 100.00 ml. Add 58 µl toluene.

Solutions are prepared anaerobically under N<sub>2</sub>:CO<sub>2</sub>. Solutions A, B, C and D are autoclaved. After cooling, the solutions are combined under N<sub>2</sub> gas. To 10 ml **solution A**, add 0.5 ml solution **B**, 0.5 ml solution **C**, 0.25 ml solution **D** and 0.4 ml solution **E**. pH should be 7.3 without further adjustment. Add new toluene solution to the cultures about every 7 days.

*continued next page*

*Trace element solution SL-10:*

HCl (25%; 7.7 M)	10.00	ml
FeCl <sub>2</sub> x 4 H <sub>2</sub> O	1.50	g
ZnCl <sub>2</sub>	70.00	mg
MnCl <sub>2</sub> x 4 H <sub>2</sub> O	100.00	mg
H <sub>3</sub> BO <sub>3</sub>	6.00	mg
CoCl <sub>2</sub> x 6 H <sub>2</sub> O	190.00	mg
CuCl <sub>2</sub> x 2 H <sub>2</sub> O	2.00	mg
NiCl <sub>2</sub> x 6 H <sub>2</sub> O	24.00	mg
Na <sub>2</sub> MoO <sub>4</sub> x 2 H <sub>2</sub> O	36.00	mg
Distilled water	990.00	ml

First dissolve FeCl<sub>2</sub> in the HCl, then dilute in water, add and dissolve the other salts. Finally make up to 1000.0 ml.

*Selenite-Tungstate solution:*

NaOH	0.50	g
Na <sub>2</sub> SeO <sub>3</sub> x 5 H <sub>2</sub> O	3.00	mg
Na <sub>2</sub> WO <sub>4</sub> x 2 H <sub>2</sub> O	4.00	mg
Distilled water	1000.00	ml

*Vitamin solution:*

Biotin	20.00	mg
Folic acid	20.00	mg
Pyridoxine-HCl	100.00	mg
Thiamine-HCl x 2 H <sub>2</sub> O	50.00	mg
Riboflavin	50.00	mg
Nicotinic acid	50.00	mg
D-Ca-pantothenate	50.00	mg
Vitamin B <sub>12</sub>	1.00	mg
p-Aminobenzoic acid	50.00	mg
Lipoic acid	50.00	mg
Distilled water	1000.00	ml