

## 943: SEDIMENTIBACTER SAALENSIS MEDIUM

(NH <sub>4</sub> )HCO <sub>3</sub>	0.45	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.12	g
MgSO <sub>4</sub> x 6 H <sub>2</sub> O	0.13	g
<b>Trace element solution SL-10</b>	1.00	ml
<b>Selenite-tungstate solution</b>	1.00	ml
Yeast extract	3.00	g
NaHCO <sub>3</sub>	3.80	g
Sodium resazurin (0.1% w/v)	0.50	ml
Sodium Potassium phosphate buffer (1 M, pH 7.3)	10.00	ml
Glycine	0.75	g
L-Arginine x HCl	2.11	g
<b>Seven vitamins solution</b>	1.00	ml
Na <sub>2</sub> S x 9 H <sub>2</sub> O (3% w/v)	0.15	g
Distilled water	1000.00	ml

Dissolve ingredients (except bicarbonate, phosphate buffer, glycine, arginine, vitamins, and sulfide), then sparge medium with 80% N<sub>2</sub> and 20% CO<sub>2</sub> gas mixture for 30 - 45 min to make it anoxic. Add bicarbonate and adjust pH to 7.3, then dispense medium under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After autoclaving add phosphate buffer, glycine, arginine, vitamins (sterilized by filtration), and sulfide from sterile anoxic stock solutions prepared under 100% N<sub>2</sub> gas atmosphere. Prior to inoculation add 10 - 20 mg sodium dithionite per liter medium from a 5% (w/v) stock solution, freshly prepared under 100% N<sub>2</sub> gas and filter-sterilized.

### Trace element solution SL-10 (from medium 320)

HCl (25%)	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 1000.00 ml.

## 943: SEDIMENTIBACTER SAALENSIS MEDIUM

### Selenite-tungstate solution (from medium 385)

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

### Seven vitamins solution (from medium 503)

Vitamin B <sub>12</sub>	100.00	mg
p-Aminobenzoic acid	80.00	mg
D-(+)-biotin	20.00	mg
Nicotinic acid	200.00	mg
Calcium pantothenate	100.00	mg
Pyridoxine hydrochloride	300.00	mg
Thiamine-HCl x 2 H <sub>2</sub> O	200.00	mg
Distilled water	1000.00	ml