

## VII. APPENDIX. MEDIA

**Table 1. PES stock solution**
**PES medium**

Tris hydroxymethyl aminomethane	5.0 g
NaNO <sub>3</sub>	3.5 g
Na <sub>2</sub> -glycerophosphate	500 mg
Fe stock solution (Table 4-1)	250 ml
P-2 metal mix (Table 4-2)	250 ml
Vitamine B <sub>12</sub> stock solution (0.1 mg/ml)	1.0 ml
Thiamine-HCl stock solution (1.0 mg/ml)	5.0 ml
Biotine stock solution (0.1 mg/ml)	0.5 ml
Distilled water	1000 ml

**Table 2. PESI stock solution**
**PESI medium**

Tris hydroxymethyl aminomethane	5.0 g
NaNO <sub>3</sub>	3.5 g
Na <sub>2</sub> -glycerophosphate	500 mg
Fe stock solution (Table 4-1)	250 mg
P-2 metal mix (Table 4-2)	250 ml
KI stock solution	10 ml
Distilled water	1000 ml

**Table 3. ASP<sub>12</sub>**
**ASP<sub>12</sub>**

Tris hydroxymethyl aminomethane	1.0 g
NTA	(0.1 g)
NaCl	28.0 g
MgSO <sub>4</sub> · 7H <sub>2</sub> O	7.0 g
MgCl <sub>2</sub> · 6H <sub>2</sub> O	4.0 g
KCl	0.7 g
Ca (as Cl <sup>-</sup> )	0.4 g
NaNO <sub>3</sub>	0.1 g
K <sub>3</sub> PO <sub>4</sub>	10.0 mg
Na <sub>2</sub> -glycerophosphate	10.0 mg
Na <sub>2</sub> SiO <sub>3</sub> · 9H <sub>2</sub> O	150 mg
Vitamine B <sub>12</sub> stock solution	0.2 µg
Thiamine-HCl stock solution	100 µg
Biotine stock solution	1.0 µg
PII metal mix (Table 4-3)	10.0 ml
S2 metal mix (Table 4-4)	10.0 ml
Distilled water	1000 ml

**Table 4**
**1: Fe stock solution**

Na <sub>2</sub> -EDTA · 2H <sub>2</sub> O	330 mg
Fe(NH <sub>4</sub> ) <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	351 mg
Distilled water	500 ml

**2: P-2 metal mix**

Na <sub>2</sub> -EDTA · 2H <sub>2</sub> O	500 mg
H <sub>3</sub> BO <sub>3</sub>	570 mg
FeCl <sub>3</sub> · 6H <sub>2</sub> O	24.5 mg
MnSO <sub>4</sub> · 4H <sub>2</sub> O	82.0 mg
CoSO <sub>4</sub> · 7H <sub>2</sub> O stock solution (4.8 mg/ml)	0.5 ml
ZnSO <sub>4</sub> · 7H <sub>2</sub> O	11.0 mg
Distilled water	500 ml

**3: PII metal mix**

Na <sub>2</sub> -EDTA · 2H <sub>2</sub> O	100 mg
Fe (as Cl <sup>-</sup> )	1.0 mg
H <sub>3</sub> BO <sub>4</sub>	20.0 mg
Mn (as Cl <sup>-</sup> )	4.0 mg
Zn (as Cl <sup>-</sup> )	500 µg
Co (as Cl <sup>-</sup> )	100 µg
Distilled water	100 ml

**4: S2**

Na <sub>2</sub> MoO <sub>4</sub>	5.0 mg
Br (as Cl <sup>-</sup> )	100 mg
Sr (as Cl <sup>-</sup> )	20.0 mg
Rb (as Cl <sup>-</sup> )	2.0 mg
Li (as Cl <sup>-</sup> )	2.0 mg
I (as K <sup>+</sup> )	100 µg
Va (as Cl <sup>-</sup> )	10.0 µg
Distilled water	100 ml