

## DY-V

Components and Final Concentration in Culture Medium	Stock Solution	Addition per Litre of Culture Medium
1. MgSO <sub>4</sub> x 7 H <sub>2</sub> O	50.00 g / l dH <sub>2</sub> O	1 ml
2. KCl	3.00 g / l dH <sub>2</sub> O	1 ml
3. NH <sub>4</sub> Cl	2.68 g / l dH <sub>2</sub> O	1 ml
4. NaNO <sub>3</sub>	20.00 g / l dH <sub>2</sub> O	1 ml
5. β-glycerophosphat	2.16 g / l dH <sub>2</sub> O	1 ml
6. H <sub>3</sub> BO <sub>3</sub>	0.80 g / l dH <sub>2</sub> O	1 ml
7. Na <sub>2</sub> EDTA x 2 H <sub>2</sub> O (Titriplex III)	8.00 g / l dH <sub>2</sub> O	1 ml
8. Na <sub>2</sub> SiO <sub>3</sub> x 9 H <sub>2</sub> O	14.00 g / l dH <sub>2</sub> O	1 ml
9. FeCl <sub>3</sub> x 6 H <sub>2</sub> O	1.00 g / l dH <sub>2</sub> O	1 ml
10. CaCl <sub>2</sub> oder CaCl <sub>2</sub> x 2 H <sub>2</sub> O	75.00 g / l dH <sub>2</sub> O oder 99,35 g / l dH <sub>2</sub> O	1 ml
11. MES		200 mg
12. Trace Metal Solution		1 ml
MnCl <sub>2</sub> x 4 H <sub>2</sub> O	200 mg / 100 ml dH <sub>2</sub> O	
ZnSO <sub>4</sub> x 7 H <sub>2</sub> O	40 mg / 100 ml dH <sub>2</sub> O	
CoCl <sub>2</sub> x 6 H <sub>2</sub> O	8 mg / 100 ml dH <sub>2</sub> O	
Na <sub>2</sub> MoO <sub>4</sub> x 2 H <sub>2</sub> O	20 mg / 100 ml dH <sub>2</sub> O	
Na <sub>3</sub> VO <sub>4</sub>	2 mg / 100 ml dH <sub>2</sub> O	
H <sub>2</sub> SeO <sub>3</sub>	2 mg / 100 ml dH <sub>2</sub> O	
Mix the six solutions; then bring volume up to 1l with dH <sub>2</sub> O		
13. Vitamin Solution (Waris-H)		1 ml
Vitamin B12 (0.15 nM)	0.20 mg / l dH <sub>2</sub> O	
Biotin (4.10 nM)	1.00 mg / l dH <sub>2</sub> O	
Thiamine-HCl (0.30 μM)	100.00 mg / l dH <sub>2</sub> O	
Niacinamide (0.80 nM)	0.10 mg / l dH <sub>2</sub> O	

pH of the Vitamin Solution should be around pH 7

adjust pH to 5 with NaOH, then autoclave