

## High Salt Medium (HSM) aka Sueoka's Medium

Used for *Chlamydomonas* as well as other species

Reference: Sueoka, N., Chiang, K.S. and Kates, J.R. (1967) Deoxyribonucleic acid replication in meiosis of *Chlamydomonas reinhardtii*. I. Isotopic transfer experiments with a strain producing eight zoospores. J. Mol. Biol. 25: 44-67.

STOCK	STOCK SOLUTION	ml/L
1. <b>Beijerinck's #2:</b>		50 ml
NH <sub>4</sub> Cl	5 g/500 ml	
MgSO <sub>4</sub> .7H <sub>2</sub> O	0.2 g/500 ml	
CaCl <sub>2</sub>	0.1 g/500 ml	
2. <b>Phosphate #2:</b>		25 ml
KH <sub>2</sub> PO <sub>4</sub>	14.8 g/500 ml	
K <sub>2</sub> HPO <sub>4</sub>	28.8 g/500 ml	
3. <b>AAP Trace Metal Solution</b>	see recipe below	1 ml

Final pH of medium is 6.8 and if necessary can be adjusted using 1N HCl and 1N NaOH. Autoclave for 20 minutes or longer if using larger quantities than 1Litre. Allow to stand overnight before use.

### Trace Metal Solution:

H <sub>3</sub> BO <sub>3</sub>	92.76 mg/500 ml
MnCl <sub>2</sub> .4H <sub>2</sub> O	207.69 mg/500 ml
ZnCl <sub>2</sub>	1.64 mg/500 ml
FeCl <sub>3</sub> .6H <sub>2</sub> O	79.89 mg/500 ml
Na <sub>2</sub> EDTA.2H <sub>2</sub> O	150.00 mg/500 ml
CoCl <sub>2</sub> .6H <sub>2</sub> O	1.30 mg/500 ml
Na <sub>2</sub> MoO <sub>4</sub> .2H <sub>2</sub> O	3.63 mg/500 ml
CuCl <sub>2</sub> .2H <sub>2</sub> O	0.006 mg/500 ml