1/2Waris H+Si

HEPES	11.915 mg
KNO_3	5 mg
$MgSO_4 \cdot 7H_2O$	1 mg
$(NH_4)_2HPO_4$	1 mg
$Ca(NO_3)_2 \cdot 4H_2O$	5 mg
Waris P-2	0.05 mL
Waris EDTA	0.05 mL
Vitamin B_{12}	1 µg
Biotin	0.05 µg
Thiamine HCl	5 µg
Niacinamide	0.005 µg
Soil extract	0.5 mL
$Na_2SiO_3 \cdot 9H_2O$	2.842 mg
Distilled water	99.4 mL
PH 7.0	

Waris H is diluted half strength and added $Na_2SiO_3 \cdot 9H_2O$.

Reference

McFadden, G. I., Melkonian, M. 1986 Use of Hepes buffer for microalgal culture media and fixation for electron microscopy. *Phycologia*, **25**, 551-557.

Waris P-2

$Na_2EDTA \cdot 2H_2O$	0.3 g
H_3BO_3	0.114 g
$MnCl_2 \cdot 4H_2O$	14.4 mg
$ZnSO_4 \cdot 7H_2O$	2.1 mg
$CoCl_2 \cdot 6H_2O$	0.4 mg
Distilled water	100 mL

Reference

McFadden, G. I., Melkonian, M. 1986 Use of Hepes buffer for microalgal culture media and fixation for electron microscopy. *Phycologia*, **25**, 551-557.

Waris EDTA

EDTA	0.522 g
$FeSO_4 \cdot 7H_2O$	0.498 g
KOH (1 mol/L solution)	5.4 mL
Distilled water	94.6 mL

EDTA and $FeSO_4 \cdot 7H_2O$ is heated for 30 min (100℃); KOH is added to the cooled mixture.

Reference

McFadden, G. I., Melkonian, M. 1986 Use of Hepes buffer for microalgal culture media and fixation for electron microscopy. *Phycologia*, **25**, 551-557.