Preparation of medium A

Add to 1 litre of sea water (33 PSU) filtered through 0,22 - m:

- 0,05 mL stock solution trace elements with EDTA
- 0,05 mL stock solution trace elements with citric acid Autoclave for 15 minutes, let cool for at least one day

After cooling add sterile per litre:

- 0,5 mL vitamin stock

Preparation of stock solutions:

Trace elements with EDTA	final stock	stock 1	stock 2
	g/100 mL	g/25 mL	g/25 mL
Na ₂ EDTA	0,372		
Fe- II-citrate	0,131		
MnCl ₂ x4H ₂ 0		0,495	
ZnSO ₄ x7H ₂ 0		0,072	
Na ₂ MoO ₄ x2H ₂ 0		0,060	
CoCl ₂ x6H ₂ 0		0,030	
CuSo ₄ x5H ₂ 0			0,062
H ₂ SeO ₃			0,032
NaVO ₃			0,030
NiSO ₄ x6H ₂ 0			0,066

Prepare individual solutions for each trace element of the series of stocks 1 and 2. Add 1 mL of each stock 1 and 0,1 mL of each stock 2 in 100 mL of final stock (working stock). Filtrate final stock (0,2 m sterile, non-pyrogenic syringe filter) and keep at 4°C. Filtered stocks 1 and stocks 2 can be stored at 4°C.

Trace elements with citric acid	final stock	stock 1	stock 2
	g/100 mL	g/25 mL	g/25 mL
Citric acid	0,385		
Fe-II-citrate	0,131		
MnCl ₂ x4H ₂ 0		0,495	
ZnSO ₄ x7H ₂ 0		0,072	
Na ₂ MoO ₄ x2H ₂ 0		0,060	
CoCl ₂ x6H ₂ 0		0,030	
CuSo ₄ x5H ₂ 0			0,062
H ₂ SeO ₃			0,032
NaVO ₃			0,030
NiSO ₄ x6H ₂ 0			0,066

Trace elements of stocks 1 and 2 are are the same used for the Trace elements with EDTA. Add 1 mL of each stock 1 and 0,1 mL of each stock 2 in 100 mL of final stock (working stock). Filtrate final stock (0,2 m sterile, non-pyrogenic syringe filter) and keep at 4°C. Filtered stocks 1 and stocks 2 can be stored at 4°C.

Vitamins	final stock	stock 1	stock 2
	mg/100 mL	mg/50 mL	mg/50 mL
Thiamine-HCl	20 mg		
Biotin		1,04	
Vitamin B ₁₂			11,1

In 100 mL of final stock (vitamin working stock) add 0,5 mL of stock 1 and stock 2. Filtrate final stock (0,2 m sterile, non-pyrogenic syringe filter) and keep at -20°C. Filtered stock 1 and stock 2 can be stored at -20°C.