1691. Artificial sea water – Tryptone soy broth Medium (ASW TSB Medium)

Basal medium

Trypticase Pepton	17.000	g
Peptone from soy meal	3.000	g
D-Glucose	2.500	g
Bacto Agar	20.000	g
Artificial Sea Water (ASW) or Biomaris	1000.00	ml

Adjust the pH to 7.3 with NaOH 4M

Add to 1000 ml of medium after autoclaving and cooling to 55°C:

Trace Element Solution SL-10 (see below)	1.0	ml
Vitamin Solution (see below)	1.0	ml

Artificial Sea Water Solution 2x concentrated (ASW):

NaCl	27.2000	g
$MgCl_2$ x 6 H_2O	9.0600	g
$CaCl_2$ x 2 H_2O	2.6000	g
KCl	1.2800	g
$MgSO_4$ x 7 H_2O	11.8800	g
Na_2HPO_4 x 2 H_2O	0.0200	g
NH_4NO_3	0.0042	g
ddH_2O	1000.0000	ml

Trace element solution SL-10:

HCl (25%; 7.7 M)	10.00	ml
$FeCl_2$ x 4 H_2O	1.50	g
$ZnCl_2$	70.00	mg
$MnCl_2$ x 4 H_2O	100.00	mg
H_3BO_3	6.00	mg
$CoCl_2$ x 6 H_2O	190.00	mg
$CuCl_2$ x 2 H_2O	2.00	mg
$NiCl_2$ x 6 H_2O	24.00	mg
Na_2MoO_4 x 2 H_2O	36.00	mg
Distilled water	990.00	ml

First dissolve $FeCl_2$ in HCl, then dilute with water, add and dissolve the other salts. Finally make up to 1000.0 ml.

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Vitamin solution:

Biotin	2.00	mg
Folic acid	2.00	mg
Pyridoxine-HCl	10.00	mg
Thiamine-HCl x 2 H_2O	5.00	mg
Riboflavin	5.00	mg
Nicotinic acid	5.00	mg
D-Ca-pantothenate	5.00	mg
Vitamin B_{12}	0.10	mg
p-Aminobenzoic acid	5.00	mg
Lipoic acid	5.00	mg
Distilled water	1000.00	ml