Milli-Q water 970 ml, NaCl 19.0 g, $MgCl_2 \cdot 6H_2O$ 2.6 g, $CaCl_2 \cdot 2H_2O$ 0.15 g, Na_2SO_4 4.0 g, NH_4Cl 0.25 g, KH_2PO_4 4.0 g, KCl 0.5 g, HEPES (2-[4-(2-hydroxyethyl)-1-piperazinyl]ethanesulfonic acid) 23.8 g were mixed and dissolved in an anaerobic chamber to prepare an inorganic salt sea water medium (solution A).

Milli-Q water is ultrapure water produced using an apparatus manufactured by Merk Millipore (e.g., Milli-Q Integral 10).

[0038]

[Preparation of sodium bicarbonate solution (solution C)]

$NaHCO_3$ (2.52 g) was dissolved in Milli-Q water (30 ml), and the mixture was sterilized by filtration to prepare a sodium bicarbonate solution (solution ~~B~~ C).

[0039]

[Preparation of trace element solution (solution E)]

HCl(35%) 8.3 ml, $FeSO_4 \cdot 7H_2O$ 2100 mg, H_3BO_4 30 mg, $MnCl_2 \cdot 4H_2O$ 100 mg, $CoCl_2 \cdot 6H_2O$ 190 mg, $NiCl_2 \cdot 6H_2O$ 24 mg, $CuCl_2 \cdot 2H_2O$ 2 mg, $ZnSO_4 \cdot 7H_2O$ 144 mg and $Na_2MoO_4 \cdot 2H_2O$ 36 mg were mixed and the mixture was scaled up to 100 ml with Milli-Q water and sterilized by filtration to prepare a trace element solution (solution E).

[0040]

[Preparation of selenium-tungsten solution (solution S)]

NaOH 400 mg, Na_2SeO_3 4 mg and $Na_2WO_4 \cdot 2H_2O$ 8 mg were mixed and the mixture was scaled up to 100 ml with Milli-Q water and sterilized by filtration to prepare a selenium-tungsten solution (solution S).

[0041]

[Preparation of vitamin solution (solution V)]

4-Aminobenzoic acid 4 mg, D-biotin 1 mg, nicotinic acid 10 mg, calcium D-pantothenate 5 mg, pyridoxine hydrochloride 15 mg, thiamine hydrochloride 10 mg, and vitamin B12 5 mg were mixed, and the mixture was scaled up to 100 ml with Milli-Q water and sterilized by filtration to prepare a vitamin