

Supplemental Text S1: Components of the LMO-812 minimal media used for the experimental culture of *Shewanella piezotolerans* WP3. Media components were adapted from a previously described defined marine media (1).

LMO-812: Full Media

(Adjust final pH to 7.0 with Na₂CO₃ solution)

Component	Amount
Full Marine Salt Solution	950 mL
Trace Element Mixture	1 mL
Vitamin Mixture	1 mL
Thiamine Solution	1 mL
Vitamin B12 Solution	1 mL
NaHCO ₃ Solution	20 mL

Full Marine Salt Solution

Component	Amount
Distilled Water	950 mL
NaCl	26.0 g
MgCl ₂ · 6 H ₂ O	5 g
CaCl ₂ · 2 H ₂ O	1.4 g
Na ₂ SO ₄	4.0 g
NH ₄ Cl	0.3 g
KH ₂ PO ₄	0.1 g
KCl	0.5 g

Trace Element Mixture

(Adjust final pH of solution to 6.0 with NaOH solution)

Component	Amount
Distilled Water	1000 mL
EDTA	5.2 g
H ₃ BO ₃	10 mg
MnCl ₂ · 4 H ₂ O	5 mg
FeSO ₄ · 7 H ₂ O	2100 mg
CoCl ₂ · 6 H ₂ O	190 mg
NiCl ₂ · 6 H ₂ O	24 mg
CuCl ₂ · 2 H ₂ O	10 mg
ZnSO ₄ · 7 H ₂ O	144 mg
Na ₂ MoO ₄ · 2 H ₂ O	36 mg

Vitamin Mixture

Component	Amount
Sodium Phosphate, 10 mM, pH 7.1	100 mL
4-Aminobenzoic acid	4 mg
D(+)-Biotin	1 mg

Nicotinic Acid	10 mg
D(+)-Pantothenic Acid, Calcium Salt	5 mg
Pyridoxine dihydrochloride	15 mg

Thiamine Solution

Component	Amount
Sodium Phosphate, 10 mM, pH 3.4	100 mL
Thiamine chloride dihydrochloride	10 mg

Vitamin B12 Solution

Component	Amount
Distilled Water	100 mL
Cyanocobalamin	5 mg

Bicarbonate Solution

Component	Amount
Distilled Water	1000 mL
NaHCO ₃	84 g

1. Widdel, Friedrich. 2005. 8.1.1. Media for sulphate-reducing bacteria, p 102-104. In HERMES, Handbook of Methods for Microbial Ecology, Sept 2005 Edition.