

1656. HALANAEROBIUM HYDROGENIFORMANS MEDIUM (SL-HP)

NaCl	70.00	g
Na ₂ CO ₃	40.00	g
K ₂ HPO ₄	6.30	g
Yeast extract	1.00	g
Na ₂ S x 9 H ₂ O	0.75	g
L-Cysteine	0.60	g
Basal medium stock solution (see below)	10.00	ml
Trace mineral solution (see below)	10.00	ml

Final pH 11.0

Basal medium stock solution:

NH ₄ NO ₃	50.0	mg
MgCl ₂ x 6 H ₂ O	8.5	mg
SiO ₂	7.5	mg
MnSO ₄ x H ₂ O	4.5	mg
CaCl ₂ x 2 H ₂ O	4.2	mg
FeSO ₄ x 7 H ₂ O	1.8	mg
Resazurin	4.0	mg
Distilled Water	1000.000	ml

Trace mineral solution:

MgSO ₄ x 7 H ₂ O	3.000	g
Na ₃ -NTA x H ₂ O	1.63	g
NaCl	1.00	g
MnCl ₂ x 4H ₂ O	0.64	g
ZnCl ₂	0.13	g
FeSO ₄ x 7 H ₂ O	0.10	g
CaCl ₂ x 2 H ₂ O	0.10	g
NiSO ₄ x 6 H ₂ O	0.03	g
Na ₂ MoO ₄ x 2 H ₂ O	0.025	g
Na ₂ WO ₄ x 2 H ₂ O	0.025	g
KAl(SO ₄) ₂ x 12 H ₂ O	0.010	g
H ₃ BO ₃	0.010	g
CuCl ₂ x 2H ₂ O	0.007	g
Distilled Water	1000.000	ml

Prepare the medium without cysteine hydrochloride, $\text{Na}_2\text{S} \times 9 \text{H}_2\text{O}$ and Na_2CO_3 . Boil and then cool under a gas atmosphere of $\text{N}_2:\text{CO}_2$ (80:20 v/v) and add the Na_2CO_3 . Autoclave the medium and add from sterile stock solutions cysteine hydrochloride and $\text{Na}_2\text{S} \times 9 \text{H}_2\text{O}$. The final pH should be 11.0.

$\text{Na}_2\text{S} \times 9 \text{H}_2\text{O}$ (10% v/v)
L-Cysteine (5% v/v)

0.05 ml/10 ml
0.12 ml/10 ml