

## 498: PSEUDOTHERMOTOGA MEDIUM

Yeast extract (BD Bacto)	0.50	g
<b>Modified Wolin's mineral solution</b>	15.00	ml
NaCl	3.46	g
Na <sub>2</sub> -EDTA	0.77	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	0.88	g
MgCl <sub>2</sub> x 6 H <sub>2</sub> O	0.69	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.14	g
KCl	0.08	g
NaBr	12.50	mg
H <sub>3</sub> BO <sub>3</sub> (0.1% w/v)	4.00	ml
(NH <sub>4</sub> ) <sub>2</sub> Ni(SO <sub>4</sub> ) <sub>2</sub> (0.1% w/v)	3.00	ml
SrCl <sub>2</sub> x 6 H <sub>2</sub> O (0.1% w/v)	1.90	ml
KI (0.01% w/v)	0.10	ml
Sodium resazurin (0.1% w/v)	0.50	ml
KH <sub>2</sub> PO <sub>4</sub>	0.50	g
Starch (soluble)	5.00	g
Na <sub>2</sub> S x 9 H <sub>2</sub> O	0.50	g
Distilled water	1000.00	ml

Dissolve ingredients (except hydrogenphosphate, starch and sulfide) and adjust pH to 7.0. Sparge medium with 100% N<sub>2</sub> gas for 30 - 45 min to make it anoxic, dispense under same gas atmosphere into anoxic Hungate-type tubes or serum vials to 30% volume and autoclave. Add hydrogenphosphate, starch and sulfide from sterile anoxic stock solutions prepared under 100% N<sub>2</sub> gas. Check pH of the complete medium and adjust to 7.0 - 7.2, if necessary.

For DSM 28089: Omit starch and supplement medium after autoclaving with 5.00 g/l yeast extract added from an anoxic sterile stock solution prepared under a 100% N<sub>2</sub> gas atmosphere.

### Modified Wolin's mineral solution (from medium 141)

Nitrolotriacetic acid	1.50	g
MgSO <sub>4</sub> x 7 H <sub>2</sub> O	3.00	g
MnSO <sub>4</sub> x H <sub>2</sub> O	0.50	g
NaCl	1.00	g
FeSO <sub>4</sub> x 7 H <sub>2</sub> O	0.10	g
CoSO <sub>4</sub> x 7 H <sub>2</sub> O	0.18	g
CaCl <sub>2</sub> x 2 H <sub>2</sub> O	0.10	g
ZnSO <sub>4</sub> x 7 H <sub>2</sub> O	0.18	g
CuSO <sub>4</sub> x 5 H <sub>2</sub> O	0.01	g
AlK(SO <sub>4</sub> ) <sub>2</sub> x 12 H <sub>2</sub> O	0.02	g

H <sub>3</sub> BO <sub>3</sub>	0.01	g
Na <sub>2</sub> MoO <sub>4</sub> x 2 H <sub>2</sub> O	0.01	g
NiCl <sub>2</sub> x 6 H <sub>2</sub> O	0.03	g
Na <sub>2</sub> SeO <sub>3</sub> x 5 H <sub>2</sub> O	0.30	mg
Na <sub>2</sub> WO <sub>4</sub> x 2 H <sub>2</sub> O	0.40	mg
Distilled water	1000.00	ml

First dissolve nitrilotriacetic acid and adjust pH to 6.5 with KOH, then add minerals. Adjust final to pH 7.0 with KOH.