

788: CALORAMATOR MEDIUM

This recipe contains strain-specific modifications for *Caloramator coolhaasii* DSM 12679 *

Final pH: 7.2 - 7.4

Final volume: 1003 ml

KH ₂ PO ₄	0.41	g
Na ₂ HPO ₄ x 2 H ₂ O	0.52	g
NH ₄ Cl	2.40	g
MgCl ₂ x 6 H ₂ O	0.40	g
Yeast extract	0.20	g
Trace element solution SL-10	1.00	ml
Selenite-tungstate solution	1.00	ml
Sodium resazurin (0.1% w/v)	0.50	ml
CaCl ₂ x 2 H ₂ O	0.20	g
Na ₂ CO ₃	1.50	g
D-Glucose	5.00	g
Seven vitamins solution	1.00	ml
Na ₂ S x 9 H ₂ O	0.30	g
NaCl	2.40	g
Distilled water	1000.00	ml

Dissolve ingredients except calcium chloride, carbonate, glucose, vitamins and sulfide. Sparge medium with 80% N₂ and 20% CO₂ gas mixture for 30 - 45 min to make it anoxic. Dispense medium under the same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. Add calcium chloride, glucose, vitamins and sulfide from sterile anoxic stock solutions prepared under 100% N₂ gas and carbonate from a sterile anoxic stock solution prepared under 80% N₂ and 20% CO₂ gas mixture. Vitamins should be sterilized by filtration. Prior to use adjust pH of complete medium to 7.2 - 7.4, if necessary.

* Omit yeast extract and supplement medium with 2.40 g/l NaCl.

Trace element solution SL-10 (from medium 320)

HCl (25%)	10.00	ml
FeCl ₂ x 4 H ₂ O	1.50	g
ZnCl ₂	70.00	mg
MnCl ₂ x 4 H ₂ O	100.00	mg
H ₃ BO ₃	6.00	mg
CoCl ₂ x 6 H ₂ O	190.00	mg
CuCl ₂ x 2 H ₂ O	2.00	mg
NiCl ₂ x 6 H ₂ O	24.00	mg
Na ₂ MoO ₄ x 2 H ₂ O	36.00	mg
Distilled water	990.00	ml

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First dissolve FeCl_2 in the HCl , then dilute in water, add and dissolve the other salts. Finally make up to 1000.00 ml.

Selenite-tungstate solution (from medium 385)

NaOH	0.50	g
$\text{Na}_2\text{SeO}_3 \times 5 \text{ H}_2\text{O}$	3.00	mg
$\text{Na}_2\text{WO}_4 \times 2 \text{ H}_2\text{O}$	4.00	mg
Distilled water	1000.00	ml

Seven vitamins solution (from medium 503)

Vitamin B_{12}	100.00	mg
p-Aminobenzoic acid	80.00	mg
D-(+)-biotin	20.00	mg
Nicotinic acid	200.00	mg
Calcium pantothenate	100.00	mg
Pyridoxine hydrochloride	300.00	mg
Thiamine-HCl $\times 2 \text{ H}_2\text{O}$	200.00	mg
Distilled water	1000.00	ml