

ATCC medium: 1792 *Formivibrio citricus* medium

| | |
|--------------------------------------------|---------|
| Sodium citrate..... | 2.94 g |
| NH ₄ Cl..... | 0.53 g |
| KH ₂ PO ₄ | 1.36 g |
| MgCl ₂ . 6H ₂ O..... | 2.03 g |
| CaCl ₂ . 2H ₂ O..... | 0.15 g |
| Modified Wolfe's Minerals (see below)..... | 10.0 ml |
| Wolfe's Vitamin Solution (see below)..... | 10.0 ml |
| NaHCO ₃ | 2.5 g |
| Na ₂ S . 9H ₂ O..... | 0.24 g |
| Distilled water..... | 1.0 L |

Add all components except sodium bicarbonate and sodium sulfide. Boil and cool medium under 90% N₂, 10% CO₂. Add bicarbonate; add sodium sulfide. Adjust medium for final pH 7.5-7.7. Tube under 90% N₂, 10% CO₂ gas phase using anaerobic techniques. Autoclave at 121C for 15 minutes.

Modified Wolfe's Minerals:

| | |
|----------------------------------------------------------|---------|
| Na ₂ SeO ₃ | 10.0 mg |
| NiCl ₂ . 6H ₂ O..... | 10.0 mg |
| Na ₂ WO ₄ . 2H ₂ O..... | 10.0 mg |
| Wolfe's Mineral Solution (see below)..... | 1.0 L |

Wolfe's Mineral Solution:

Available from ATCC as a sterile ready-to-use liquid (Trace Mineral Supplement, catalog no. MD-TMS.)

| | |
|--------------------------------------------------------------|--------|
| Nitrilotriacetic acid..... | 1.5 g |
| MgSO ₄ . 7H ₂ O..... | 3.0 g |
| MnSO ₄ . H ₂ O..... | 0.5 g |
| NaCl..... | 1.0 g |
| FeSO ₄ . 7H ₂ O..... | 0.1 g |
| CoCl ₂ . 6H ₂ O..... | 0.1 g |
| CaCl ₂ | 0.1 g |
| ZnSO ₄ . 7H ₂ O..... | 0.1 g |
| CuSO ₄ . 5H ₂ O..... | 0.01 g |
| AlK(SO ₄) ₂ . 12H ₂ O..... | 0.01 g |
| H ₃ BO ₃ | 0.01 g |
| Na ₂ MoO ₄ . 2H ₂ O..... | 0.01 g |
| Distilled water..... | 1.0 L |

Add nitrilotriacetic acid to approximately 500 ml of water and adjust to pH 6.5 with KOH to dissolve the compound. Bring volume to 1.0 L with remaining water and add remaining compounds one at a time.

Wolfe's Vitamin Solution:

Available from ATCC as a sterile ready-to-use liquid (Vitamin Supplement, catalog no. MD-VS).

| | |
|---------------------------------|---------|
| Biotin..... | 2.0 mg |
| Folic acid..... | 2.0 mg |
| Pyridoxine hydrochloride..... | 10.0 mg |
| Thiamine . HCl..... | 5.0 mg |
| Riboflavin..... | 5.0 mg |
| Nicotinic acid..... | 5.0 mg |
| Calcium D-(+)-pantothenate..... | 5.0 mg |
| Vitamin B12..... | 0.1 mg |
| p-Aminobenzoic acid..... | 5.0 mg |
| Thioctic acid..... | 5.0 mg |
| Distilled water..... | 1.0 L |