

319: SPOROHALOBACTER LORTETII MEDIUM

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| Casamino acids (BD Bacto) | 2.00 | g |
| Nutrient broth (BD Difco) | 2.00 | g |
| Yeast extract | 2.00 | g |
| L-Glutamic acid | 4.00 | g |
| NaCl | 105.00 | g |
| KCl | 0.75 | g |
| Modified Wolin's mineral solution | 10.00 | ml |
| FeSO ₄ x 7 H ₂ O (0.1% w/v in 0.1 N H ₂ SO ₄) | 2.00 | ml |
| Sodium resazurin (0.1% w/v) | 0.50 | ml |
| L-Cysteine HCl x H ₂ O | 0.50 | g |
| MgCl ₂ x 6 H ₂ O | 10.00 | g |
| CaCl ₂ x 2 H ₂ O | 3.70 | g |
| Wolin's vitamin solution (10x) | 1.00 | ml |
| Distilled water | 1000.00 | ml |

1. Dissolve ingredients (except cysteine, magnesium chloride, calcium chloride and vitamins), bring medium to the boil, then cool to room temperature under 100% N₂ gas atmosphere. Thereafter, add and dissolve cysteine, adjust pH to 6.5 and dispense under same gas atmosphere into anoxic Hungate-type tubes or serum vials and autoclave. After sterilization add magnesium chloride and calcium chloride from sterile anoxic stock solutions autoclaved under 100% N₂ gas and vitamins from a filter-sterilized stock solution prepared under N₂ gas.

2. Note: For agar medium add 20.00 g/l agar, 5.00 g/l CaCO₃, and 2.00 g/l soluble starch.

Modified Wolin's mineral solution (from medium 141)

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| Nitrilotriacetic acid | 1.50 | g |
| MgSO ₄ x 7 H ₂ O | 3.00 | g |
| MnSO ₄ x H ₂ O | 0.50 | g |
| NaCl | 1.00 | g |
| FeSO ₄ x 7 H ₂ O | 0.10 | g |
| CoSO ₄ x 7 H ₂ O | 0.18 | g |
| CaCl ₂ x 2 H ₂ O | 0.10 | g |
| ZnSO ₄ x 7 H ₂ O | 0.18 | g |
| CuSO ₄ x 5 H ₂ O | 0.01 | g |
| AlK(SO ₄) ₂ x 12 H ₂ O | 0.02 | g |
| H ₃ BO ₃ | 0.01 | g |
| Na ₂ MoO ₄ x 2 H ₂ O | 0.01 | g |
| NiCl ₂ x 6 H ₂ O | 0.03 | g |
| Na ₂ SeO ₃ x 5 H ₂ O | 0.30 | mg |
| Na ₂ WO ₄ x 2 H ₂ O | 0.40 | mg |
| Distilled water | 1000.00 | ml |

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

Wolin's vitamin solution (10x) (from medium 120)

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| Biotin | 20.00 | mg |
| Folic acid | 20.00 | mg |
| Pyridoxine hydrochloride | 100.00 | mg |
| Thiamine HCl | 50.00 | mg |
| Riboflavin | 50.00 | mg |
| Nicotinic acid | 50.00 | mg |
| Calcium D-(+)-pantothenate | 50.00 | mg |
| Vitamin B ₁₂ | 1.00 | mg |
| p-Aminobenzoic acid | 50.00 | mg |
| (DL)-alpha-Lipoic acid | 50.00 | mg |
| Distilled water | 1000.00 | ml |