

628: MMB MEDIUM

This recipe contains strain-specific modifications for *Prostheco bacter de jone ii* DSM 12251 *

Final pH: 7.2

Final volume: 1000 ml

| | | |
|---|--------|-----|
| Peptone | 0.15 | g |
| Yeast extract (Oxoid LP0021B) | 0.15 | g/l |
| Glucose | 1.00 | g |
| (NH ₄) ₂ SO ₄ | 0.25 | g |
| Hutner's salts | 20.00 | ml |
| Vitamin solution | 10.00 | ml |
| Distilled water | 970.00 | ml |

1. pH 7.2
2. Glucose and vitamin solution should be filter-sterilized separately.

* [DSM 12251](#) grows only with yeast extract from OXOID LP0021B.

Vitamin solution

| | | |
|-----------------------------------|--------|----|
| Vitamin B ₁₂ | 0.01 | mg |
| Biotin | 0.20 | mg |
| Calcium pantothenate | 0.50 | mg |
| Folic acid | 0.20 | mg |
| Nicotinamide | 0.50 | mg |
| Pyridoxine hydrochloride | 0.50 | mg |
| Riboflavin | 0.50 | mg |
| Thiamine-HCl x 2 H ₂ O | 0.50 | mg |
| Distilled water | 100.00 | ml |

Hutner's salts (from medium 590)

| | | |
|--|---------|----|
| Nitrilotriacetic acid (NTA) | 10.000 | g |
| MgSO ₄ x 7 H ₂ O | 29.700 | g |
| CaCl ₂ x 2 H ₂ O | 3.335 | g |
| (NH ₄) ₆ Mo ₇ O ₂₄ x 4 H ₂ O | 9.250 | mg |
| FeSO ₄ x 7 H ₂ O | 99.000 | mg |
| "Metals 44" | 50.000 | ml |
| Distilled water | 950.000 | ml |

1. Dissolve the nitrilotriacetic acid.
2. Adjust pH to 7.0 with KOH (~7.3 g).

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3. Dissolve other salts separately and combine.
4. Adjust pH to 6.8 with NaOH or H₂SO₄.

"Metals 44" (from medium 590)

| | | |
|---|---------|----|
| Na-EDTA | 250.00 | mg |
| ZnSO ₄ x 7 H ₂ O | 1095.00 | mg |
| FeSO ₄ x 7 H ₂ O | 500.00 | mg |
| MnSO ₄ x H ₂ O | 154.00 | mg |
| CuSO ₄ x 5 H ₂ O | 39.20 | mg |
| Co(NO ₃) ₂ x 6 H ₂ O | 24.80 | mg |
| Na ₂ B ₄ O ₇ x 10 H ₂ O | 17.70 | mg |
| Distilled water | 1000.00 | ml |

Dissolve the EDTA and add a few drops of concentrated H₂SO₄ to retard precipitation of the heavy metal ions.