# 1327: LARKINELLA ARBORICOLA MEDIUM

This recipe contains strain-specific modifications for *Larkinella arboricola* DSM 21851 *

Final pH: * 6.0 - 6.5
Final volume: 1000 ml

| | | |
|---|---|---|
| $KH_2PO_4$ | 0.10 | g |
| N-Acetylglucosamine | 1.00 | g |
| Peptone | 0.10 | g |
| Yeast extract | 0.10 | g |
| Casamino acids | 0.10 | g |
| Glucose | 0.50 | g |
| **Hutner's salts** | 20.00 | ml |
| Distilled water | 980.00 | ml |
| Agar, for solid medium | 15.00 | g |

The medium may be solidified by adding 15 g/l agar. Final pH should be 6.0 - 6.5

* Adjust pH of final medium to 6.0 - 6.5.

## Hutner's salts (from medium 590)

| | | |
|---|---|---|
| Nitrilotriacetic acid (NTA) | 10.000 | g |
| $MgSO_4$ x 7 $H_2O$ | 29.700 | g |
| $CaCl_2$ x 2 $H_2O$ | 3.335 | g |
| $(NH_4)_6Mo_7O_{24}$ x 4 $H_2O$ | 9.250 | mg |
| $FeSO_4$ x 7 $H_2O$ | 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).
3. Dissolve other salts separately and combine.
4. Adjust pH to 6.8 with NaOH or $H_2SO_4$.

## "Metals 44"

| | | |
|---|---|---|
| Na-EDTA | 250.00 | mg |
| $ZnSO_4$ x 7 $H_2O$ | 1095.00 | mg |
| $FeSO_4$ x 7 $H_2O$ | 500.00 | mg |
| $MnSO_4$ x $H_2O$ | 154.00 | mg |
| $CuSO_4$ x 5 $H_2O$ | 39.20 | mg |
| $Co(NO_3)_2$ x 6 $H_2O$ | 24.80 | mg |

| | | |
|---|---|---|
| $Na_2B_4O_7$ x 10 $H_2O$ | 17.70 | mg |
| Distilled water | 1000.00 | ml |

Dissolve the EDTA and add a few drops of concentrated $H_2SO_4$ to retard precipitation of the heavy metal ions.

**"Metals 44"** (from medium 590)

| | | |
|---|---|---|
| Na-EDTA | 250.00 | mg |
| $ZnSO_4$ x 7 $H_2O$ | 1095.00 | mg |
| $FeSO_4$ x 7 $H_2O$ | 500.00 | mg |
| $MnSO_4$ x $H_2O$ | 154.00 | mg |
| $CuSO_4$ x 5 $H_2O$ | 39.20 | mg |
| $Co(NO_3)_2$ x 6 $H_2O$ | 24.80 | mg |
| $Na_2B_4O_7$ x 10 $H_2O$ | 17.70 | mg |
| Distilled water | 1000.00 | ml |

Dissolve the EDTA and add a few drops of concentrated $H_2SO_4$ to retard precipitation of the heavy metal ions.