

## 1321: ACIDIHALOBACTER FERROOXIDANS MEDIUM

This recipe contains strain-specific modifications for *Acidihalobacter yilgarnensis* DSM 105917 \*

Final pH: \* 2.5

Final volume: 1020 ml

|                   |        |    |
|-------------------|--------|----|
| <b>Solution A</b> | 900.00 | ml |
| <b>Solution B</b> | 100.00 | ml |
| <b>Solution C</b> | 10.00  | ml |
| <b>Solution D</b> | 10.00  | ml |

1. Combine solution A and solution B after cooling and add solutions C and D to complete the medium.

2. Note: Use 10% (v/v) as inoculum.

\* Omit yeast extract and adjust pH of complete medium to 2.5.

### Solution A

|   |        |    |
|---|--------|----|
| NaCl  | 15.00  | g  |
| (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> | 0.20   | g  |
| MgSO <sub>4</sub> × 7 H <sub>2</sub> O          | 0.40   | g  |
| K <sub>2</sub> HPO <sub>4</sub>                 | 0.10   | g  |
| Distilled water                                 | 900.00 | ml |

Adjust the pH to 1.7 with H<sub>2</sub>SO<sub>4</sub> and autoclave at 121°C for 20 min.

### Solution B

|  |        |    |
|--|--------|----|
| FeSO <sub>4</sub> × 7 H <sub>2</sub> O | 13.90  | g  |
| Distilled water                        | 100.00 | ml |

Adjust the pH to 1.25 and autoclave solution at 115°C for 10 min or sterilize by filtration.

### Solution C

|  |       |    |
|--|-------|----|
| K <sub>2</sub> S <sub>4</sub> O <sub>6</sub> | 0.30  | g  |
| Distilled water                              | 10.00 | ml |

Sterilize by filtration.

### Solution D

# Microorganisms



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|                          |                 |              |
|--------------------------|-----------------|--------------|
| <del>Yeast extract</del> | <del>0.10</del> | <del>g</del> |
| Distilled water          | 10.00           | ml           |

Autoclave at 121°C for 20 min.