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Patent Number:
5,786,162

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Description

Deposited Name: Alcaligenes eutrophus Davis
Designation/Strain: CH34 [CIP 107179, DSM 2839, LMG 1195]
Depositor: M Mergeay
Product Description: Formerly Wautersia metallidurans. Genome sequencing strain. Type strain. Resistant to zinc, cobalt, nickel, mercury, cadmium, and produces a zinc-binding protein. Purified genomic DNA of this strain is available as ATCC® 43123D-5™.

Propagation

Medium
ATCC® Medium 3: Nutrient agar or nutrient broth

Growth Conditions
Temperature: 30°C
Atmosphere: Aerobic

Propagation Procedure
1. Open vial according to enclosed instructions.
2. Using a single tube of #3 broth (5 to 6 mL), withdraw approximately 0.5 to 1.0 mL with a Pasteur or 1.0 mL pipette. Rehydrate the entire pellet.
3. Aseptically transfer this aliquot back into the broth tube. Mix well.
4. Use several drops of the suspension to inoculate a #3 agar slant and/or plate.
5. Incubate the tubes and plate at 30°C for 24 to 48 hours.

Isolation

Sedimentation pond in a zinc factory

Notes

For autotrophic growth, use ATCC® Medium #1246 (Mineral Medium for Hydrogen Bacteria) under a gas mixture of 60% H₂, 10% CO₂, 25% N₂ and 5% O₂.

Additional information on this culture is available on the ATCC® website at www.atcc.org.

References

References and other information relating to this product are available online at www.atcc.org.

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the Biosafety in Microbiological and Biomedical Laboratories from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes
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