Mycobacterium avium, Strain DJO-44271

Catalog No. NR-49092

For research use only. Not for human use.

Contributor:
Diane Ordway, Ph.D., Assistant Professor, Department of Microbiology, Immunology and Pathology, Colorado State University, Fort Collins, Colorado, USA and National Institute of Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH), Bethesda, Maryland, USA

Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: Mycobacteriaceae, Mycobacterium Species: Mycobacterium avium (Originally deposited as Mycobacterium xenopi and updated to avium following whole genome sequence analysis) Strain: DJO-44271 Original Source: Mycobacterium avium (M. avium), strain DJO-44271 was isolated between 2009 and 2014 from a human in Texas.1

M. avium is an acid-fast, slow growing, non-chromogen bacillus ubiquitous in a number of environmental sources including water, soil and plants.2 This opportunistic pathogen is capable of causing disease in both humans and animals. M. avium is subspecies into M. avium subsp. avium, M. avium subsp. hominisuis, M. avium subsp. paratuberculosis and M. avium subsp. silvaticum, each of which has a specific host or hosts but shares many genotypic and phenotypic features.3,4,5

Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in Middlebrook 7H9 broth with ADC Enrichment supplemented with 10% glycerol.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:
NR-49092 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:
Media:
Middlebrook 7H9 broth with ADC enrichment or equivalent Middlebrook 7H10 agar with OADC enrichment or Lowenstein-Jensen agar or equivalent

Incubation:
Temperature: 37°C
Atmosphere: Aerobic with 5% CO2

Propagation:
1. Keep vial frozen until ready for use; then thaw.
2. Transfer the entire thawed aliquot into a single tube of broth.
3. Use several drops of the suspension to inoculate an agar slant and/or plate.
4. Incubate the tube, slant and/or plate at 37°C for 2 to 6 weeks.

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Mycobacterium avium, Strain DJO-44271, NR-49092.”

Biosafety Level: 2

This publication recommends that practices with this agent include the use of respiratory protection and the implementation of specific procedures and use of specialized equipment to prevent and contain aerosols.

Disclaimers:
You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.
Use Restrictions:
This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

ATCC® is a trademark of the American Type Culture Collection.