**Mycobacterium avium**, Strain 2285 Rough

**Catalog No. NR-44264**
This reagent is the property of the U.S. Government.

**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

<table>
<thead>
<tr>
<th>Product Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bacteria Classification:</strong> Mycobacteriaceae, Mycobacterium</td>
</tr>
<tr>
<td><strong>Species:</strong> Mycobacterium conspicuum</td>
</tr>
<tr>
<td><strong>Strain:</strong> 2285 Rough</td>
</tr>
<tr>
<td><strong>Original Source:</strong> Mycobacterium avium (M. avium), strain 2285 Rough was isolated between 2009 and 2013 from human sputum at NIAID, NIH, Bethesda, Maryland, USA. NR-44264 was deposited to BEI Resources as M. avium. Whole genome sequencing putatively identified strain 2285 Rough as subspecies avium.</td>
</tr>
<tr>
<td><strong>Comments:</strong> M. avium, strain 2285 Rough is part of the Top Priority Nontuberculosis Mycobacteria Whole Genome Sequencing Project at the Genomic Sequencing Center for Infectious Diseases (GSCID) at University of Maryland School of Medicine. The complete genome of M. avium, strain 2285 Rough has been sequenced (GenBank: JAOE00000000).</td>
</tr>
</tbody>
</table>

* M. avium* is an acid-fast, Gram-positive, non-motile, nonchromogenic, slow-growing bacillus ubiquitous in a number of environmental sources including water, soil and plants. 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.

**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-44264 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -80°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:**

<table>
<thead>
<tr>
<th><strong>Media:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Middlebrook 7H9 broth with ADC enrichment or equivalent</td>
</tr>
<tr>
<td>Middlebrook 7H10 agar with OADC enrichment or Lowenstein-Jensen agar or equivalent</td>
</tr>
</tbody>
</table>

**Incubation:**

<table>
<thead>
<tr>
<th><strong>Temperature:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>37°C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Atmosphere:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerobic with 5% CO2</td>
</tr>
</tbody>
</table>

**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 tubes and 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 2285 Rough, NR-44264.”

**Biosafety Level:** 2


**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](http://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 use only.
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.