

Product Information Sheet for HM-245

Rothia dentocariosa, Strain M567

Catalog No. HM-245

For research use only. Not for use in humans.

Contributor:

Michael G. Surette, Professor, Department of Microbiology and Infectious Diseases, University of Calgary, Alberta, Canada

Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Micrococcaceae, Rothia

Species: Rothia dentocariosa

Strain: M567

<u>Original Source</u>: Rothia dentocariosa (R. dentocariosa), strain M567 was isolated from expectorated sputum from a 32-year-old male patient with cystic fibrosis in January 2008.^{1,2}

<u>Comments</u>: *R. dentocariosa*, strain M567 (<u>HMP ID 0734</u>) is a reference genome for <u>The Human Microbiome Project</u> (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome of *R. dentocariosa*, strain M567 was sequenced at the <u>Broad Institute</u> (GenBank: <u>ADDW000000000</u>).

<u>Note</u>: HMP material is taxonomically classified by the depositor. Quality control of these materials is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material.

R. dentocariosa is a Gram-positive, aerobic to microaerophilic, pleomorphic, filamentous, rod-shaped bacterium isolated almost exclusively from oral and respiratory sites.^{3,4} It is a normal commensal of the human oral cavity and is often associated with dental caries and periodontal disease.⁵ *R. dentocariosa* is considered to be an organism of low virulence; however, rare clinical infections do occur with this opportunistic pathogen.^{6,7,8}

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Brain Heart Infusion Broth supplemented with 10% glycerol.

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

Packaging/Storage:

HM-245 was packaged aseptically in 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:

<u>Media</u>

Brain Heart Infusion broth or equivalent

Tryptic Soy agar with 5% sheep blood or equivalent

Incubation:

Temperature: 37°C Atmosphere: Aerobic

Propagation:

- 1. Keep vial frozen until ready for use, then thaw.
- 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.
- Incubate the tube, slant and/or plate at 37°C for 1 to 2 days.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Rothia dentocariosa*, Strain M567, HM-245."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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

BEI Resources

www.beiresources.org

E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898

HM-245_08FEB2021



SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for HM-245

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

References:

1. Surette, M. G., Personal Communication.

license before first commercial sale.

- 2. HMP ID 0734 (Rothia dentocariosa, strain M567)
- Georg, L. K. and J. M. Brown. "Rothia gen. nov., an Aerobic Genus of the Family Actinomycetaceae." <u>Int. J.</u> <u>Syst. Bacteriol.</u> 17 (1967): 79-88.
- Daneshvar, M. I., et al. "Identification of Some Charcoal-Black-Pigmented CDC Fermentative Coryneform Group 4 Isolates as Rothia dentocariosa and Some as Corynebacterium aurimucosum: Proposal of Rothia dentocariosa emend. Georg and Brown 1967, Corynebacterium aurimucosum emend. Yassin et al. 2002, and Corynebacterium nigricans Shukla et al. 2003 pro synon. Corynebacterium aurimucosum." J. Clin. Microbiol. 42 (2004): 4189-4198. PubMed: 15365010.
- Brown, J. M., L. K. Georg and L. C. Waters. "Laboratory Identification of *Rothia dentocariosa* and Its Occurrence in Human Clinical Materials." <u>Appl. Microbiol.</u> 17 (1969): 150-156. PubMed: 4886858.
- Shakoor, S., et al. "Rothia dentocariosa Endocarditis with Mitral Valve Prolapse: Case Report and Brief Review." Infection 39 (2011): 177-179. PubMed: 21311946.
- Yang, C.-Y., et al. "Rothia dentocariosa Bacteremia in Children: Report of Two Cases and Review of the Literature." J. Formos. Med. Assoc. 106 (2007): S33-S38. PubMed: 17493907.
- Boudewijns, M., et al. "Rothia dentocariosa, Endocarditis and Mycotic Aneurysms: Case Report and Review of the Literature." <u>Clin. Microbiol. Infect.</u> 9 (2003): 222-229. PubMed: 12667255.

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



BEI Resources
www.beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898

HM-245 08FEB2021