Product Information Sheet for HM-818

Rothia aeria, Oral Taxon 188, Strain F0474

Catalog No. HM-818

For research use only. Not for use in humans.

Contributor:
Jacques Izard, Assistant Member of the Staff, Department of Molecular Genetics, The Forsyth Institute, Boston, Massachusetts, USA

Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Micrococcaceae, Rothia*
Species: *Rothia aeria*
Subtaxon: Oral Taxon 188
Strain: F0474
Original Source: *Rothia aeria (R. aeria)*, Oral Taxon 188, strain F0474 was isolated in 2008 from the saliva of a healthy 41-year-old female patient in the United States.[1,2]
Comments: *R. aeria*, Oral Taxon 188, strain F0474 (HMP ID 1324) is a reference genome for The Human Microbiome Project (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome of *R. aeria*, Oral Taxon 188, strain F0474 was sequenced at J. Craig Venter Institute (GenBank: AJJQ00000000).
Note: 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. aeria is a Gram-positive, aerobic, pleomorphic, filamentous, rod-shaped bacterium that is occasionally found in the oral cavity of healthy individuals.[3] *R. aeria* is considered to be an organism of low virulence and is susceptible to several antibiotics; however, rare clinical infections do occur with this opportunistic pathogen.[4,5,6]

Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in Brain Heart Infusion broth supplemented with 10% glycerol.

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

Packaging/Storage:
HM-818 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:
Media:
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.
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 one day.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Rothia aeria,* Oral Taxon 188, Strain F0474, HM-818."

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 the 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

BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

license is required. U.S. Government contractors may need a license before first commercial sale.

References:

1. Izard, J., Personal Communication.
2. HMP ID 1324 (*Rothia aeria,* Oral Taxon 188, strain F0474)
3. Li, Y., et al. "*Rothia aeria* sp. nov., *Rhodococcus baikonurensis* sp. nov. and *Arthrobacter russicus* sp. nov., Isolated from Air in the Russian Space Laboratory Mir." Int. J. Syst. Evol. Microbiol. 54 (2004): 827-835. PubMed: 15143031.
4. Mahobia, N., P. Chaudhary and Y. Kamat. "*Rothia* Prosthetic Knee Joint Infection: Report and Mini-Review." New Microbe New Infect. 1 (2013): 2-5. PubMed: 25356316.
5. Crowe, A., et al. "*Rothia aeria* Mitral Valve Endocarditis Complicated by Multiple Mycotic Aneurysms: Laboratory Identification Expedited Using MALDI-TOF MS." Infection 42 (2014): 419-423. PubMed: 24078192.
6. Thiyagarajan, A., et al. "The First Report of Survival Post *Rothia aeria* Endocarditis." BMJ Case Rep. (2013): bcr-2013-200534. PubMed: 24108768.

Support Provided by NIAID

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898