

***Rothia aeria*, Oral Taxon 188, Strain F0474**

**Catalog No. HM-818**

**For research use only. Not for human use.**

**Contributor:**

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**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 saliva of a healthy, 41-year-old female patient in the United States.<sup>1</sup>

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 the [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<sup>2</sup> that is occasionally found in the oral cavity of healthy individuals. *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.<sup>3-5</sup>

**Material Provided:**

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X 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 24 hours.

**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](#). 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. J. IZARD, Personal Communication.
2. Li, Y., et al. "*Rothia aerea* 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.
3. Mahobia, N., P. Chaudhary and Y. Kamat. "*Rothia* Prosthetic Knee Joint Infection: Report and Mini-Review." *New Microbe New Infect.* 1 (2013): 2-5.
4. Crowe, A., et al. "*Rothia aerea* Mitral Valve Endocarditis Complicated by Multiple Mycotic Aneurysms: Laboratory Identification Expedited Using MALDI-TOF MS." *Infection* 2013 *In press*. PubMed: 24078192.
5. Thiyagarajan, A., et al. "The First Report of Survival Post *Rothia aerea* Endocarditis." *BMJ Case Rep.* 2013 *In press*. PubMed: 24108768.
6. [HMP ID 1324](#) (*R. aerea*, Oral Taxon 188, strain F0474)

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