

Product Information Sheet for HM-308

***Hungatella hathewayi*, Strain WAL-18680 (Deposited as *Clostridium hathewayi*, Strain WAL-18680)**

Catalog No. HM-308

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Clostridiaceae, *Hungatella*

Species: *Hungatella hathewayi* (Note: The label on the vial is incorrect; the correct species is *Hungatella hathewayi*, due to changes in nomenclature that occurred in 2014.^{1,2})

Strain: WAL-18680 (Wadsworth Anaerobe Laboratory)

Original Source: *Hungatella hathewayi* (*H. hathewayi*), strain WAL-18680 was isolated from the stool of a male child with autism.^{1,3}

Comments: *H. hathewayi*, strain WAL-18680 (HMP ID 9473) 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 *H. hathewayi*, strain WAL-18680 was sequenced at the Broad Institute (GenBank: [ADLN000000000](#)).

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.

H. hathewayi is a Gram-positive, spore-forming, obligately anaerobic bacteria that is part of normal human gut flora.⁴ It was reclassified from *Clostridium* to *Hungatella* in 2014.² *C. hathewayi* was reported to differ from most *Clostridium* species because it typically stained Gram-negative and spores were difficult to find.⁴⁻⁶ Additionally, *C. hathewayi* was reported to be pathogenic in rare circumstances.⁶

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Modified Reinforced Clostridial broth supplemented with 10% glycerol.

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

Packaging/Storage:

HM-308 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:

Modified Reinforced Clostridial broth or equivalent

Tryptic Soy agar with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic

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 days.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Hungatella hathewayi*, Strain WAL-18680, HM-308."

Biosafety Level: 2

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.

Disclaimers:

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References:

1. Allen-Vercoe, E., Personal Communication.
2. Kaur, S., et al. "*Hungatella effluvii* gen. nov., sp. nov., an Obligately Anaerobic Bacterium Isolated from an Effluent Treatment Plant, and Reclassification of *Clostridium hathewayi* as *Hungatella hathewayi* gen. nov., comb. nov." *Int J Syst Evol Microbiol.* 64 (2014): 710-718. PubMed: 24186873.
3. [HMP ID 9473](#) (*Clostridium hathewayi*, strain WAL-18680)
4. Steer, T., et al. "*Clostridium hathewayi* sp. nov., from Human Faeces." *Syst. Appl. Microbiol.* 24 (2001): 353-357. PubMed: 11822669.
5. Elsayed, S. and K. Zhang. "Human Infection Caused by *Clostridium hathewayi*." *Emerg. Infect. Dis.* 10 (2004): 1950-1952. PubMed: 15550205.
6. Woo, P. C. Y., et al. "Bacteremia Due to *Clostridium hathewayi* in a Patient with Acute Appendicitis." *J. Clin. Microbiol.* 42 (2004): 5947-5949. PubMed: 15583350.

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