

Product Information Sheet for HM-356

Escherichia coli, Strain MS 200-1

Catalog No. HM-356

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: Enterobacteriaceae, Escherichia

Species: Escherichia coli

Strain: MS 200-1

<u>Original Source</u>: *Escherichia coli* (*E. coli*), strain MS 200-1 was isolated from the ileum of a patient with normal histology in New York, New York, USA.^{1,2}

<u>Comments</u>: *E. coli*, strain MS 200-1 (<u>HMP ID 9553</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 *E. coli*, strain MS 200-1 was sequenced at the Genome Institute at <u>Washington University</u> (GenBank: <u>ADUC000000000</u>).

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.

E. coli is a Gram-negative, rod-shaped bacterium commonly found in the gut flora of warm-blooded animals and is the primary facultative anaerobe of the human gastrointestinal tract. While most *E. coli* strains are harmless and are an important part of a healthy intestinal tract, some serotypes are pathogenic, causing diarrhea, urinary tract infections, respiratory illness, pneumonia or other illnesses in their host.^{3,4,5}

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy 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-356 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:

Tryptic Soy broth or equivalent Tryptic Soy agar 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
- 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 1 day.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Escherichia coli*, Strain MS 200-1, HM-356."

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 (BMBL). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

Disclaimers

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

References:

- 1. HMP ID 9553 (Escherichia coli, strain MS 200-1)
- 2. Boedeker, E. C., Personal Communication.
- Nataro, J. P. and J. B. Kaper. "Diarrheagenic Escherichia coli." <u>Clin. Microbiol. Rev.</u> 11 (1998): 142-201. PubMed: 9457432.
- Kaper, J. B., J. P. Nataro and H. L. Mobley. "Pathogenic Escherichia coli." <u>Nat. Rev. Microbiol.</u> 2 (2004): 123-140. PubMed: 15040260.
- Croxen, M. A., et al. "Recent Advances in Understanding Enteric Pathogenic *Escherichia coli*." <u>Clin. Microbiol. Rev.</u> 26 (2013): 822-880. PubMed: 24092857.

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