

# Product Information Sheet for HM-337

## *Escherichia coli*, Strain MS 85-1

### Catalog No. HM-337

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

#### Contributor:

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#### Product Description:

Bacteria Classification: Enterobacteriaceae, *Escherichia*

Species: *Escherichia coli*

Strain: MS 85-1

Original Source: *Escherichia coli* (*E. coli*), strain MS 85-1 was isolated on February 15, 2002 from the involved ileum of a patient with Crohn's ileitis in New York City, U. S. A.<sup>1,2</sup>

Comments: *E. coli*, strain MS 85-1 is a reference genome for [The Human Microbiome Project](#) (HMP). HMP is an initiative to identify and characterize human microbial flora. The whole genome shotgun sequence of *E. coli*, strain MS 85-1 is available (GenBank: [ADWQ00000000](#)).

*E. coli* is a Gram-negative rod-shaped bacterium which occurs singly or in pairs. It is a major facultative inhabitant of the large intestine.

*E. coli*, strain MS 85-1 is reported to have the five following virulence-associated properties: mannose sensitive adherence to Caco-2 cells, non-mannose sensitive adherence to Caco-2 cells, invasion of Hep-2 cells, forty-eight hour survival in mouse macrophages and gentamicin resistance.<sup>2</sup>

#### Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Tryptic Soy broth supplemented with 10% glycerol.

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

#### Packaging/Storage:

HM-337 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.
3. Use several drops of the suspension to inoculate an agar slant and/or plate.
4. Incubate the tubes and 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: *Escherichia coli*, Strain MS 85-1, HM-337."

#### 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](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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### References:

1. [HMP 9350](#) (*Escherichia coli*, strain MS 85-1)
2. E. C. Boedeker, Personal Communication.

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