

Product Information Sheet for HM-36

Clostridium sp., Strain 7_2_43FAA

Catalog No. HM-36

For research use only. Not for human use.

Contributor:

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Product Description:

Bacteria Classification: *Clostridiaceae*, *Clostridium*

Species: *Clostridium* sp.

Strain: 7_2_43FAA

Original Source: This isolate was obtained from biopsy tissue from the transverse colon of a patient with active Crohn's disease in Calgary, Alberta, Canada in 2007.¹

Comments: *Clostridium* sp., strain 7_2_43FAA 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 *Clostridium* sp. 7_2_43FAA is currently being sequenced at the [Broad Institute](#) (GenBank: [ACDK01000000](#)).

Clostridium species are Gram-positive, spore-forming, obligate anaerobes that are ubiquitous in virtually all anoxic habitats where organic compounds are found, especially soils, aquatic sediments and the intestinal tracts of animals and humans. A few *Clostridium* species are pathogenic, producing the most potent biological toxins known to affect humans.

Material Provided:

Each vial contains approximately 0.5 mL of bacterial culture in 0.5X 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-36 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 ([ATCC medium 2107](#)) or equivalent

Tryptic Soy Agar with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic gas mixture
(80% N₂:10% CO₂:10% H₂)

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 cultures at 37°C for 24 hours.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH as part of the Human Microbiome Project: *Clostridium* sp., Strain 7_2_43FAA, HM-36."

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, 2007; see [www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm](#).

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References:

1. Emma Allen-Vercoe, personal communication.
2. [HMP 0236](#) (*Clostridium* sp., strain 7_2_43FAA)

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