

**Anaerostipes sp., Strain 3\_2\_56FAA**

**Catalog No. HM-220**

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

**Contributor:**

Emma Allen-Vercoe, Assistant Professor, Department of Molecular and Cellular Biology, University of Guelph, Guelph, Ontario, Canada

**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: *Lachnospiraceae*, *Anaerostipes*

Species: *Anaerostipes* sp.

Strain: 3\_2\_56FAA

Original Source: *Anaerostipes* sp., strain 3\_2\_56FAA was isolated from inflamed biopsy tissue taken from the gastrointestinal tract of a 29-year-old female patient with Crohn's disease.<sup>1</sup>

Comments: *Anaerostipes* sp., strain 3\_2\_56FAA ([HMP ID 1011](#)) 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 *Anaerostipes* sp., strain 3\_2\_56FAA is currently being sequenced at the [Broad Institute](#) (GenBank: [ACWB00000000](#)).

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.

*Anaerostipes* species are obligately anaerobic, Gram-positive, non-motile bacteria that can be found in the gastrointestinal tract of humans and animals. Older cultures of *Anaerostipes* may stain Gram negative and spores may be difficult to find.<sup>2,3</sup>

**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-220 was packaged aseptically, in screw-capped plastic 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 (TSA) with 5% sheep blood or equivalent

Incubation:

Temperature: 37°C

Atmosphere: Anaerobic (80% N<sub>2</sub>:10% CO<sub>2</sub>:10% H<sub>2</sub>)

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 48 hours.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Anaerostipes* sp., Strain 3\_2\_56FAA, HM-220."

**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 <http://www.cdc.gov/biosafety/publications/bmb15/index.htm>.

**Disclaimers:**

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**References:**

1. [HMP ID 1011](#) (*Anaerostipes* sp., strain 3\_2\_56FAA)
2. Schwiertz, A., et al. "*Anaerostipes caccae* gen. nov., sp. nov., a New Saccharolytic, Acetate-Utilising, Butyrate-producing Bacterium from Human Faeces." *Syst. Appl. Microbiol.* 25 (2002): 46-51. PubMed: 12086188.
3. Eeckhaut, V., et al. "*Anaerostipes butyraticus* sp. nov., an Anaerobic, Butyrate-Producing Bacterium from *Clostridium* Cluster XIVa, Isolated from Broiler Chicken Caecal Content, and Emended Description of the Genus *Anaerostipes*." *Int. J. Syst. Evol. Microbiol.* 60 (2010): 1108-1112. PubMed: 19666785.

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