

**Lactobacillus crispatus**, Strain MV-3A-US

**Catalog No. HM-636**

For research use only. Not for use in humans.

**Contributor:**
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**Manufacturer:**
BEI Resources

**Product Description:**

<table>
<thead>
<tr>
<th>Bacteria Classification</th>
<th>Lactobacillaceae, Lactobacillus</th>
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</thead>
<tbody>
<tr>
<td><strong>Species:</strong></td>
<td><em>Lactobacillus crispatus</em></td>
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<td><strong>Strain:</strong></td>
<td>MV-3A-US</td>
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<td><strong>Original Source:</strong></td>
<td><em>Lactobacillus crispatus</em> (L. crispatus), strain MV-3A-US is a vaginal isolate from a healthy US woman obtained in 2007.1,2</td>
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<td><strong>Comments:</strong></td>
<td><em>L. crispatus</em>, strain MV-3A-US (HMP ID 0508) 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 <em>L. crispatus</em>, strain MV-3A-US was sequenced at the Broad Institute (GenBank: ACQC000000000). 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.</td>
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<tr>
<td><strong>L. crispatus</strong> is a Gram-positive, anaerobic, mesophilic, non-motile bacterium comprising the normal vaginal microflora of human females. Its role in the regulation of pH through lactic acid production by anaerobic metabolism of glycogen helps promote a healthy ecosystem within the female lower vaginal tract.3,4 Loss of <em>L. crispatus</em> has been noted in women with bacterial vaginosis.4</td>
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<td><strong>Material Provided:</strong></td>
<td>Each vial contains approximately 0.5 mL of bacterial culture in Lactobacilli MRS broth supplemented with 10% glycerol. Note: If homogeneity is required for your intended use, please purify prior to initiating work.</td>
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<td><strong>Packaging/Storage:</strong></td>
<td>HM-636 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.</td>
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<tr>
<td><strong>Growth Conditions:</strong></td>
<td><strong>Media:</strong> Lactobacilli MRS broth and/or agar</td>
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<td><strong>Temperature:</strong> 35°C to 37°C</td>
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</tbody>
</table>

**Atmosphere:** Aerobic or Microaerophilic (CO₂ is not required for growth)

**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 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: *Lactobacillus crispatus*, Strain MV-3A-US, HM-636.”

**Biosafety Level:** 1


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References:
1. Liu, Y., Personal Communication.
2. HMP ID 0508 (L. crispatus, strain MV-3A-US)

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