

ZymoBIOMICS[®] Spike-in Control I (High Microbial Load)

ZymoBIOMICS[®] Spike-in Control I is a whole-cell exogenous control that enables absolute quantification of microbiome samples using Next-Gen Sequencing.

- Absolute Quantification: Enables cell number measurements using Next-Gen Sequencing.
- In situ Quality Control: Ensures each sample is quantified accurately.
- **Unique composition:** Comprised of two microbes alien to the human microbiome.





Defined Composition

Spike-in Species	Per Prep (20 µl)		
	Cells	16S Copies	Total DNA (ng)
Imtechella halotolerans	2 x 10 ⁷	6.0 x 10 ⁷	67.2
Allobacillus halotolerans	2 x 10 ⁷	1.4 × 10 ⁸	58.2

Quantify Absolute Abundance of Microbes



The ZymoBIOMICS® Spike-in Control I was added to a fecal sample. Total DNA was then extracted using the ZymoBIOMICS® DNA Miniprep Kit, a library was prepared and then analyzed by 16S targeted Next-Gen Sequencing. From the resulting data, the percentage of *Imtechella halotolerans* and *Allobacillus halotolerans* in the total sample composition was then calculated. The resulting percentage was paired to the defined Spike-in I cell input and used to calculate the absolute abundance for organisms in the sample based their sample composition percentages.

Product	Cat. No.	Size
ZymoBIOMICS® Spike-in Control I (High Microbial Load)	D6320 D6320-10	25 preps 250 preps