



**ZYMO RESEARCH**

*The Beauty of Science is to Make Things Simple*

# Genome and Composition

## **ZymoBIOMICS™ Microbial Community DNA Standard**

Catalog Nos. D6305 & D6306

Lot No.: ZRC187324, ZRC187325

**Composition:** Table 1 shows the microbial composition, containing both the theoretical values and values measured by next generation sequencing techniques.

**Table 1: Microbial Composition**

Species	Theoretical Composition (%)	Measured Composition (%)
	Genomic DNA	Genomic DNA <sup>1</sup>
<i>Pseudomonas aeruginosa</i>	12.0	10.4
<i>Escherichia coli</i>	12.0	9.0
<i>Salmonella enterica</i>	12.0	11.8
<i>Lactobacillus fermentum</i>	12.0	10.3
<i>Enterococcus faecalis</i>	12.0	14.1
<i>Staphylococcus aureus</i>	12.0	14.6
<i>Listeria monocytogenes</i>	12.0	13.2
<i>Bacillus subtilis</i>	12.0	13.2
<i>Saccharomyces cerevisiae</i>	2.0	1.6
<i>Cryptococcus neoformans</i>	2.0	1.8

<sup>1</sup> Shot-gun sequencing was performed using the Illumina® MiSeq™ (2x150bp) and with sequencing library prepared with Kapa HyperPlus. The composition in terms of genomic DNA abundance was calculated by summarizing the raw sequencing reads mapped to the genome of each strain.

**Genome Information:** The 16S/18S rRNA sequences (fasta format) and genomes (fasta format) of these strains are available at: <https://s3.amazonaws.com/zymo-files/BioPool/ZymoBIOMICS.STD.genomes.ZR160406.zip>.

**ZYMO RESEARCH CORP.**

Phone: (949) 679-1190 ▪ Toll Free: (888) 882-9682 ▪ Fax: (949) 266-9452 ▪ [info@zymoresearch.com](mailto:info@zymoresearch.com) ▪ [www.zymoresearch.com](http://www.zymoresearch.com)