ZYMO RESEARCH

The Beauty of Science is to Make Things Simple

Genome and Composition

ZymoBIOMICS™ Microbial Community Standard

Catalog Nos. D6300

Lot No.: ZRC183430

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[1] (%)
	Genomic DNA	Genomic DNA[2]
Pseudomonas aeruginosa	12.0	14.7
Escherichia coli	12.0	12.6
Salmonella enterica	12.0	12.1
Lactobacillus fermentum	12.0	9.5
Enterococcus faecalis	12.0	12.6
Staphylococcus aureus	12.0	10.2
Listeria monocytogenes	12.0	12.6
Bacillus subtilis	12.0	12.3
Saccharomyces cerevisiae	2.0	1.9
Cryptococcus neoformans	2.0	1.5

[1] Prior to sequencing the DNA was extracted from the microbial standard using ZR Fungal/Bacterial DNA MiniPrep™ (Cat. No. D6005), after 5-minute bead bashing with FastPrep®-24.

[2] Shotgun 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.