

Table S6 - Summary of statistics for genomes recovered in this study. Overall, 10 genomes were recovered from the probiotics pills in agreement with the community composition estimate made by MetaPhlAn2 (Truong et al., 2015). Completeness and contamination were calculated using CheckM (Parks et al., 2015). Coverage column marks the percent of the recovered/closest reference genome that is covered at $\geq 96\%$ similarity. Related to Methods (Probiotics strain identification by unique genomic sequences).

| Species | # scaffolds | # bps | Completeness | Contamination | Closest strain with published genome | Coverage (our/ref) |
|------------------------|-------------|-----------|--------------|---------------|--------------------------------------|--------------------|
| <i>B. bifidum</i> | 11 | 2,196,275 | 99.54 | 0.12 | BF3 | 100/99.9 |
| <i>B. breve</i> | 128 | 2,051,417 | 93.66 | 0.69 | BR3 | 99.9/84.4 |
| <i>B. longum</i> | 181 | 1,200,324 | 46.03 | 0.96 | BG7 | 99.9/48.7 |
| <i>L. acidophilus</i> | 22 | 1,963,531 | 98.94 | 0 | FSI4 | 100/99.8 |
| | | | | | ATCC 53544 | 100/99.8 |
| | | | | | LA1 | 100/99.8 |
| | | | | | NCFM | 100/99.6 |
| | | | | | La-14 | 99.9/99.6 |
| <i>L. casei</i> | 33 | 2,968,946 | 94.64 | 1.72 | LC5 | 99.9/95.1 |
| <i>L. lactis</i> | 36 | 2,472,057 | 100 | 0 | UC08 | 78.6/78.4 |
| <i>L. paracasei</i> | 92 | 3,038,895 | 98.79 | 3.56 | 8700:02:00 | 86.1/87.3 |
| <i>L. plantarum</i> | 31 | 3,299,766 | 99.38 | 2.78 | LP3 | 99.9/99.9 |
| <i>L. rhamnosus</i> | 29 | 2,921,071 | 99.02 | 0 | LR5 | 99.8/99 |
| <i>S. thermophilus</i> | 74 | 1,789,952 | 99.89 | 0.29 | ST3 | 99.7/98.6 |
| Unknown | 320 | | | | | |