**Table S3** Strain diversity of *Lactobacillus* and *Bifidobacterium* in the samples of the intestinal metagenomes (from the Human Microbiome Project database)

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B. longum subsp. infantis 157F 3/5 [265/363, 213/36, 219/219]  
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B. longum subsp. longum JDM301 3/11 [21/294, 215/285, 57/363]  
B. longum subsp. infantis 157F 3/5 [157/363, 213/36, 190/219]  
B. adolescentis 22L 1/1 [130/180]  
B. adolescentis ATCC 15703 1/1 [519/519]  
B. adolescentis BBMN23 1/4 [182/291] |
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B. longum DJ010A 1/1 [252/363]  
B. longum NCC2705 1/1 [200/363] |
| SRS015578 | B. longum strain BXY01 1/3 [215/285]  
B. longum subsp. longum KACC 91563 2/4 [242/393, 213/219]  
B. longum subsp. longum JDM301 3/11 [21/294, 215/285, 57/363]  
B. longum subsp. infantis 157F 3/5 [157/363, 213/36, 190/219]  
B. adolescentis 22L 1/1 [130/180]  
B. adolescentis ATCC 15703 1/1 [519/519]  
B. adolescentis BBMN23 1/4 [182/291] |
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B. longum strain BXY01 1/3 [261/285]  
B. longum BXY01 4/8 [101/294, 118/363, 126/186, 143/324] |
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L. acidophilus FSI4 4/4 [348/348, 335/342, 279/279, 170/309]  
L. acidophilus NCFM 4/4 [170/309, 279/279, 335/342, 348/348]  |
pseudocatenulatum JCM 1200 2/2 [145/665, 177/330] |
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B. longum subsp. longum JCM 1217 1/1 [308/393]  
B. longum subsp. longum GT15 1/1 [262/363]  
B. longum BXY01 2/8 [208/363, 186/186]  
B. longum subsp. longum BBMN68 1/1 [284/393]  
B. longum 105-A 1/1 [363/363]  
adolescentis BBMN23 3/4 [182/291, 300/300]  
adolescentis ATCC 15703 1/1 [519/519] |
| SRS017701 | B. pseudocatenulatum JCM 1200 2/2 [318/665, 330/330] |
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B. breve NCFB 2258 3/10 [21/294, 178/264, 93/324]  
B. bifidum BGN4 3/4 [66/180, 70/180, 324/324]  
B. bifidum JCM 1255 3/4 [178/360, 324/324, 66/180]  
B. adolescentis BBMN23 2/4 [184/246, 279/291] |
| SRS053398 | B. kashiwanohense JCM 15439 2/11 [195/324, 24/294]  
B. bifidum BGN4 2/4 [102/180, 291/324]  
B. bifidum JCM 1255 2/4 [24/360, 291/324]  
B. bifidum PRL2010 2/4 [291/324, 24/375]  
B. bifidum ATCC 29521 2/4 [270/303, 24/360]  
B. breve 689b 2/5 [129/324, 21/294]  
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B. longum subsp. longum GT15 1/1 [196/363]  
B. longum 105-A 1/1 [301/363]  
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| SRS057717 | B. pseudocatenulatum JCM 1200 2/2 [162/665, 216/330] |
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B. longum subsp. longum JCM 1217 1/1 [383/393]
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B. longum subsp. longum GT15 1/1 [216/363]
B. longum subsp. longum BBMN68 1/1 [383/393]

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SRS064276
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B. bifidum PRL2010 4/4 [150/297, 83/324, 292/375, 180/180]
B. bifidum S17 4/4 [144/180, 236/324, 292/375, 172/297]
B. bifidum BGN4 4/4 [144/180, 30/180, 269/297, 83/324]
B. bifidum JCM 1255 4/4 [277/360, 172/297, 83/324, 144/180]
B. bifidum ATCC 29521 4/4 [172/297, 62/303, 277/360, 144/180]
B. adolescentis ATCC 15703 1/1 [467/519]

SRS075398
B. pseudocatenulatum JCM 1200 2/2 [318/665, 311/330]

SRS077730
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2. coverage of genetic marker number \(i\)