

**Table S1. Genomic and clinical characteristics of 20 *Bifidobacterium* spp. strains.**

Strain	GenBank accession(s)	Genomic characteristics <sup>a</sup>					Clinical and phenotypic characteristics <sup>b</sup>	
		Size (Mb)	Contigs	Plasmids	GC%	CDS	Source	Specific Comments
<i>Bifidobacterium adolescentis</i> L2-32	AAXD00000000	2.389	35	0	59.2	2,031	GI tract	Infant feces
<i>Bifidobacterium animalis</i> subsp. <i>lactis</i> B420	CP003497.1	1.939	1	0	60.5	1,604	Unknown	NR
<i>Bifidobacterium animalis</i> subsp. <i>lactis</i> Bi-07	CP003498.1	1.939	1	0	60.5	1,601	Unknown	NR
<i>Bifidobacterium animalis</i> subsp. <i>lactis</i> V9	CP001892	1.944	1	0	60.5	1,613	GI tract	Infant feces
<i>Bifidobacterium bifidum</i> BGN4	CP001361.1	2.224	1	0	62.6	1,828	GI tract	Feces
<i>Bifidobacterium breve</i> 12L	CP006711.1	2.245	1	0	58.9	1,907	Mammary gland	Human milk
<i>Bifidobacterium breve</i> 689b	CP006715.1	2.332	1	0	58.7	1,991	GI tract	Infant feces
<i>Bifidobacterium breve</i> ACS-071-V-Sch8b	CP002743	2.327	1	0	58.7	1,972	Urogenital tract	NR
<i>Bifidobacterium breve</i> JCM 7017	CP006712.1	2.289	1	0	58.7	1,944	GI tract	Infant feces
<i>Bifidobacterium breve</i> JCM 7019	CP006713.1	2.359	1	0	58.6	2,073	GI tract	Adult feces
<i>Bifidobacterium breve</i> JCP7499	AWSX00000000	2.367	91	0	58.6	2,073	Urogenital tract	Vagina
<i>Bifidobacterium breve</i> NCFB 2258	CP006714.1	2.316	1	0	58.7	1,978	GI tract	Infant feces
<i>Bifidobacterium breve</i> S27	CP006716.1	2.294	1	0	58.7	1,948	GI tract	Infant feces
<i>Bifidobacterium breve</i> UCC2003	CP000303	2.423	1	0	58.7	2,071	GI tract	Nursing infant feces
<i>Bifidobacterium longum</i> NCC2705	AE014295, AF540971	2.26	1	1	60.1	1,868	GI tract	Infant feces
<i>Bifidobacterium longum</i> subsp. <i>infantis</i> 157F	AP010890, AP010891, AP010892	2.409	1	2	60.1	2,058	GI tract	NR
<i>Bifidobacterium longum</i> subsp. <i>longum</i> BBMN68	CP002286	2.266	1	0	59.9	1,882	GI tract	Long-lived adult male
<i>Bifidobacterium longum</i> subsp. <i>longum</i> F8	FP929034	2.385	1	0	59.6	1,997	GI tract	NR
<i>Bifidobacterium longum</i> subsp. <i>longum</i> JCM 1217	AP010888	2.385	1	0	60.3	1,998	GI tract	NR
<i>Bifidobacterium thermophilum</i> RBL67	CP004346.1	2.292	1	0	60.1	1,839	GI tract	Infant feces

<sup>a</sup> Genomes were downloaded from the PATRIC database (<ftp://ftp.patricbrc.org/patric2/>) in March 2015. CDS = coding DNA sequence.

<sup>b</sup> Gathered from information available in PATRIC. NR = not reported.