S2 Table. Strains isolated from honeybee guts

Organism	Isolated from	16S sequence accession number	Phylum or class, order	Media allowing growth ^a	Growth under O₂	Cell mor- phology
Gilliamella apicola strain IHP.2ste	bee #2	MH782109	γ-proteobacteria, Orbales	<u>HIB</u>	no	rod-shaped, Gram -
Snodgrassella alvi strain IHP.IC1 Snodgrassella alvi strain IHP.IO2	bee #5 bee #6	MH782110 MH782111	β-proteobacteria, Neisseriales	<u>HIB</u> ,LB	no	rod-shaped, Gram -
Bifidobacterium sp. strain IHP.3T2CH Bifidobacterium sp. strain IHP.9OP Bifidobacterium sp. strain IHP.IC3	bee #3 bee #9 bee #5	MH782112 MH782113 MH782114	Actinobacteria, Bifidobacteriales	<u>HIB</u> ,MRS	+	rod-shaped, Gram +
Lactobacillus kunkeei strain IHP.7AA Lactobacillus kunkeei strain IHP.B1	bee #7 bee #1	MH782115 MH782116	Firmicutes, Lactobacillales	HIB, <u>MRS</u>	++	rod-shaped, Gram +
Lysinibacillus sp. strain IHP.3T2B Lysinibacillus sp. strain IHP.4GCCB	bee #3 bee #4	MH782117 MH782118	Firmicutes, Bacillales	<u>HIB</u> ,MRS,LB	+++	rod-shaped, Gram + ^b
Staphylococcus sp. strain IHP.4GCCA Staphylococcus sp. strain IHP.B3	bee #4 bee #1	MH782119 MH782120	Firmicutes, Bacillales	<u>HIB</u> ,MRS,LB	+	cocci, Gram +
Hafnia sp. strain IHP.92DB ^c	bee #9	MH782121	γ-proteobacteria, Enterobacterales	HIB <u>,MRS</u> ,LB	+++	rod-shape, Gram -

^a Medium with the best growth is underlined. HIB: Heart Infusion Broth. MRS: De Man, Rogosa and Sharpe (here supplemented with fructose and cystein). LB: Lysogeny Broth

^b Strains forming big bacilli with central Gram positive coloration but lighter ends

^c Colonies grown on agar media had a "flowery" smell