

Supplemental Table 2. Fecal microbiota composition at genus level in the samples extracted by four different methods

Phylum	Class	Order	Family	Genus	A	B	C	D	p values	q value
Actinobacteria	Actinobacteria	Actinomycetales	Actinomycetaceae	Actinomyces	0.04 ± 0.01	0.08 ± 0.07	0.03 ± 0.02	0.03 ± 0.03	0.27	0.94
Actinobacteria	Actinobacteria	Bifidobacteriales	Bifidobacteriaceae	Bifidobacterium	12.75 ± 3.64	9.78 ± 5.39	14.14 ± 2.86	1.76 ± 0.76	<0.01	0.04
Actinobacteria	Coriobacteria	Coriobacteriales	Coriobacteriaceae	Collinsella	2.54 ± 2.36	2.27 ± 2.21	2.88 ± 2.76	0.18 ± 0.10	0.31	0.97
Actinobacteria	Coriobacteria	Coriobacteriales	Coriobacteriaceae	Eggerthella	0.11 ± 0.06	0.09 ± 0.03	0.13 ± 0.07	0.02 ± 0.01	0.02	0.37
Actinobacteria	Actinobacteria	Actinomycetales	Microbacteriaceae	Microbacterium	0.00 ± 0.00	0.01 ± 0.01	0.00 ± 0.00	0.00 ± 0.00	0.42	1.08
Actinobacteria	Actinobacteria	Actinomycetales	Propionibacteriaceae	Propionibacterium	0.00 ± 0.01	0.00 ± 0.00	0.01 ± 0.02	0.02 ± 0.02	0.14	0.79
Actinobacteria	Actinobacteria	Actinomycetales	Williamsiaceae	Williamsia	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.01	0.42	0.98
Bacteroidetes	Bacteroidia	Bacteroidales	[Paraprevotellaceae]	[Prevotella]	0.01 ± 0.01	0.01 ± 0.01	0.02 ± 0.04	0.03 ± 0.06	0.74	0.96
Bacteroidetes	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides	33.47 ± 4.07	35.41 ± 4.96	23.53 ± 3.24	59.01 ± 7.63	<0.01	<0.01
Bacteroidetes	Bacteroidia	Bacteroidales	[Odoribacteraceae]	Odoribacter	0.24 ± 0.29	0.21 ± 0.25	0.17 ± 0.24	0.47 ± 0.58	0.68	0.95
Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Parabacteroides	1.86 ± 1.61	1.61 ± 1.49	1.14 ± 1.00	3.09 ± 2.43	0.44	0.94
Bacteroidetes	Bacteroidia	Bacteroidales	Porphyromonadaceae	Porphyromonas	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.58	1.02
Bacteroidetes	Bacteroidia	Bacteroidales	Prevotellaceae	Prevotella	0.34 ± 0.45	0.33 ± 0.26	0.21 ± 0.26	1.09 ± 0.77	0.08	0.75
Bacteroidetes	Bacteroidia	Bacteroidales	[Barnesiellaceae]	Unclassified	0.19 ± 0.38	0.18 ± 0.34	0.09 ± 0.16	0.50 ± 0.97	0.74	0.95
Bacteroidetes	Bacteroidia	Bacteroidales	Rikenellaceae	Unclassified	0.42 ± 0.54	0.52 ± 0.66	0.41 ± 0.54	0.84 ± 0.88	0.79	0.96
Bacteroidetes	Bacteroidia	Bacteroidales	S24-7	Unclassified	0.00 ± 0.00	0.04 ± 0.08	0.02 ± 0.04	0.09 ± 0.09	0.29	0.95
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	[Eubacterium]	1.48 ± 2.67	0.90 ± 1.54	2.13 ± 3.52	0.13 ± 0.16	0.67	0.97
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	[Ruminococcus]	2.66 ± 2.12	2.31 ± 1.84	4.42 ± 3.93	1.90 ± 1.91	0.55	1.05
Firmicutes	Clostridia	Clostridiales	Veillonellaceae	Acidaminococcus	0.01 ± 0.01	0.01 ± 0.01	0.00 ± 0.00	0.03 ± 0.04	0.10	0.66
Firmicutes	Clostridia	Clostridiales	[Tissierellaceae]	Anaerococcus	0.00 ± 0.01	0.00 ± 0.01	0.00 ± 0.00	0.00 ± 0.00	0.58	1.00
Firmicutes	Clostridia	Clostridiales	Eubacteriaceae	Anaerofustus	0.00 ± 0.00	0.00 ± 0.00	0.01 ± 0.01	0.00 ± 0.00	0.09	0.76
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Anaerostipes	0.20 ± 0.26	0.23 ± 0.30	0.23 ± 0.36	0.14 ± 0.17	0.96	1.04
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Anaerotruncus	0.02 ± 0.02	0.02 ± 0.03	0.01 ± 0.01	0.08 ± 0.08	0.15	0.76
Firmicutes	Bacilli	Bacillales	Bacillaceae	Bacillus	0.02 ± 0.04	0.01 ± 0.01	0.02 ± 0.02	0.00 ± 0.01	0.60	0.99
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Blautia	4.17 ± 2.22	4.01 ± 2.31	6.29 ± 3.72	0.86 ± 0.38	0.05	0.59
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	Bulleidia	0.00 ± 0.01	0.00 ± 0.00	0.00 ± 0.00	0.01 ± 0.01	0.54	1.08
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Butyricoccus	0.64 ± 0.37	0.62 ± 0.26	0.35 ± 0.23	0.28 ± 0.14	0.16	0.78
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	cc_115	0.01 ± 0.01	0.02 ± 0.01	0.03 ± 0.05	0.03 ± 0.04	0.76	0.97
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Clostridium	0.19 ± 0.20	0.30 ± 0.34	0.25 ± 0.28	0.09 ± 0.09	0.66	0.98
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	Clostridium	0.08 ± 0.07	0.12 ± 0.06	0.19 ± 0.15	0.06 ± 0.04	0.20	0.92
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Clostridium	0.25 ± 0.16	0.33 ± 0.13	0.23 ± 0.20	0.43 ± 0.32	0.54	1.06
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Clostridium	0.01 ± 0.01	0.00 ± 0.00	0.01 ± 0.01	0.00 ± 0.00	0.14	0.83
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	Coprobacillus	0.32 ± 0.40	0.32 ± 0.43	0.54 ± 0.56	0.05 ± 0.06	0.43	0.95
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Coprococcus	2.42 ± 1.25	2.25 ± 1.21	1.30 ± 1.24	0.68 ± 0.36	0.12	0.72
Firmicutes	Clostridia	Clostridiales	Dehalobacteriaceae	Dehalobacterium	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	1.00	1.03
Firmicutes	Clostridia	Clostridiales	Veillonellaceae	Dialister	0.48 ± 0.66	0.52 ± 0.86	0.50 ± 0.70	0.35 ± 0.24	0.98	1.04
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Dorea	0.76 ± 0.65	0.70 ± 0.70	1.11 ± 0.98	0.37 ± 0.49	0.57	1.03
Firmicutes	Bacilli	Lactobacillales	Enterococcaceae	Enterococcus	0.02 ± 0.03	0.00 ± 0.00	0.04 ± 0.05	0.02 ± 0.02	0.55	1.04
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Faecalibacterium	9.03 ± 3.40	10.21 ± 4.61	8.13 ± 3.62	6.68 ± 4.02	0.64	0.98
Firmicutes	Bacilli	Lactobacillales	Carnobacteriaceae	Granulicatella	0.00 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.77	0.97
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	Holdemania	0.04 ± 0.05	0.05 ± 0.06	0.03 ± 0.04	0.03 ± 0.06	0.95	1.03
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Lachnospira	1.04 ± 1.23	0.90 ± 1.06	0.95 ± 1.35	0.68 ± 0.49	0.97	1.03
Firmicutes	Bacilli	Lactobacillales	Lactobacillaceae	Lactobacillus	0.04 ± 0.04	0.04 ± 0.03	0.10 ± 0.17	0.13 ± 0.18	0.63	0.98
Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Lactococcus	0.01 ± 0.02	0.01 ± 0.01	0.03 ± 0.07	0.00 ± 0.00	0.55	1.02
Firmicutes	Bacilli	Lactobacillales	Leuconostocaceae	Leuconostoc	0.01 ± 0.01	0.00 ± 0.00	0.01 ± 0.02	0.00 ± 0.00	0.59	0.98
Firmicutes	Clostridia	Clostridiales	Veillonellaceae	Megamonas	0.00 ± 0.01	0.01 ± 0.01	0.01 ± 0.02	0.08 ± 0.08	0.05	0.65
Firmicutes	Clostridia	Clostridiales	Veillonellaceae	Megasphaera	0.50 ± 0.89	0.51 ± 0.92	0.34 ± 0.63	0.05 ± 0.05	0.78	0.97
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Oscillospira	1.64 ± 1.19	2.28 ± 1.63	1.26 ± 0.93	1.63 ± 1.25	0.72	0.97
Firmicutes	Clostridia	Clostridiales	[Tissierellaceae]	Parvimonas	0.01 ± 0.01	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.01	0.72	0.99
Firmicutes	Clostridia	Clostridiales	[Tissierellaceae]	Peptoniphilus	0.00 ± 0.00	0.00 ± 0.01	0.00 ± 0.00	0.01 ± 0.01	0.68	0.96
Firmicutes	Clostridia	Clostridiales	Veillonellaceae	Phascolarctobacterium	0.46 ± 0.92	0.51 ± 0.97	0.25 ± 0.47	0.26 ± 0.43	0.94	1.03
Firmicutes	Clostridia	Clostridiales	Eubacteriaceae	Pseudoramibacter_Eubacterium	0.02 ± 0.04	0.02 ± 0.04	0.00 ± 0.00	0.00 ± 0.01	0.65	0.98
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Roseburia	1.20 ± 1.10	1.61 ± 1.25	1.40 ± 1.05	1.07 ± 0.75	0.89	1.01
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Ruminococcus	2.50 ± 3.86	2.68 ± 4.19	2.16 ± 3.81	3.10 ± 4.84	0.99	1.03
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	SMB53	0.47 ± 0.31	0.36 ± 0.20	0.18 ± 0.10	0.24 ± 0.09	0.21	0.92
Firmicutes	Bacilli	Lactobacillales	Streptococcaceae	Streptococcus	0.63 ± 0.42	0.51 ± 0.53	0.77 ± 0.57	0.49 ± 0.32	0.83	0.97
Firmicutes	Bacilli	Turicibacterales	Turicibacteraceae	Turicibacter	0.13 ± 0.11	0.07 ± 0.08	0.09 ± 0.11	0.05 ± 0.06	0.67	0.98
Firmicutes	Clostridia	Clostridiales	[Mogibacteriaceae]	Unclassified	0.04 ± 0.05	0.03 ± 0.04	0.05 ± 0.04	0.01 ± 0.01	0.60	0.97
Firmicutes	Clostridia	Clostridiales	Christensenellaceae	Unclassified	0.00 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.00 ± 0.01	0.81	0.98
Firmicutes	Clostridia	Clostridiales	Clostridiaceae	Unclassified	0.09 ± 0.12	0.14 ± 0.23	0.19 ± 0.28	0.26 ± 0.42	0.85	0.98
Firmicutes	Erysipelotrichi	Erysipelotrichales	Erysipelotrichaceae	Unclassified	0.53 ± 0.49	0.39 ± 0.37	1.02 ± 0.93	0.16 ± 0.14	0.21	0.90
Firmicutes	Bacilli	Gemellales	Gemellaceae	Unclassified	0.01 ± 0.02	0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.02	0.83	0.98
Firmicutes	Clostridia	Clostridiales	Lachnospiraceae	Unclassified	4.18 ± 1.68	4.78 ± 2.04	7.39 ± 2.69	1.65 ± 0.72	0.01	0.20
Firmicutes	Clostridia	Clostridiales	Ruminococcaceae	Unclassified	2.51 ± 2.29	2.95 ± 2.91	1.55 ± 1.28	0.50 ± 0.32	0.35	0.97
Firmicutes	Clostridia	Clostridiales	Unclassified	Unclassified	0.48 ± 0.45	0.48 ± 0.47	0.27 ± 0.21	0.59 ± 0.71	0.83	0.99
Firmicutes	Clostridia	Clostridiales	Veillonellaceae	Veillonella	3.91 ± 3.40	3.25 ± 2.63	2.80 ± 2.82	2.62 ± 1.75	0.91	1.01
Firmicutes	Clostridia	Clostridiales	[Tissierellaceae]	WAL_1855D	0.01 ± 0.01	0.01 ± 0.01	0.00 ± 0.01	0.00 ± 0.00	0.33	0.97
Fusobacteria	Fusobacteriia	Fusobacteriales	Fusobacteriaceae	Fusobacterium	0.03 ± 0.03	0.02 ± 0.03	0.02 ± 0.02	0.07 ± 0.04	0.10	0.75
Fusobacteria	Fusobacteriia	Fusobacteriales	Leptotrichiaceae	Leptotrichia	0.00 ± 0.01	0.00 ± 0.01	0.00 ± 0.00	0.02 ± 0.02	0.28	0.95
Proteobacteria	Deltaproteobacteria	Desulfobivriionales	Desulfobivriionaceae	Bilophia	0.19 ± 0.22	0.11 ± 0.13	0.06 ± 0.07	0.12 ± 0.17	0.73	0.97
Proteobacteria	Alphaproteobacteria	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium	0.00 ± 0.00	0.03 ± 0.06	0.00 ± 0.00	0.01 ± 0.01	0.43	0.97
Proteobacteria	Epsilonproteobacteria	Campylobacteriales	Campylobacteraceae	Campylobacter	0.00 ± 0.00	0.00 ± 0.01	0.00 ± 0.00	0.01 ± 0.01	0.25	1.02
Proteobacteria	Gammaproteobacteria	Enterobacteriales	Enterobacteriaceae	Citrobacter	0.02 ± 0.04	0.03 ± 0.04	0.02 ± 0.02	0.08 ± 0.08	0.27	0.97
Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Delftia	0.00 ± 0.00	0.01 ± 0.01	0.00 ± 0.00	0.02 ± 0.03	0.40	1.05
Proteobacteria	Gammaproteobacteria	Enterobacteriales	Enterobacteriaceae	Escherichia	1.29 ± 1.19	1.48 ± 1.47	0.56 ± 0.51	1.55 ± 1.13	0.59	1.00
Proteobacteria	Gammaproteobacteria	Pasteurellales	Pasteurellaceae	Haemophilus	0.14 ± 0.12	0.21 ± 0.21	0.06 ± 0.03	0.42 ± 0.27	0.07	0.74
Proteobacteria	Gammaproteobacteria	Enterobacteriales	Enterobacteriaceae	Klebsiella	0.05 ± 0.07	0.09 ± 0.11	0.02 ± 0.02	0.11 ± 0.06	0.34	0.99
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Lysobacter	0.00 ± 0.00	0.00 ± 0.00	0.48 ± 7.96	0.00 ± 0.00	0.02	0.34
Proteobacteria	Alphaproteobacteria	Rhizobiales	Methylobacteriaceae	Methylobacterium	0.00 ± 0.00	0.13 ± 0.22	0.00 ± 0.00	0.00 ± 0.00	0.31	0.94
Proteobacteria	Betaproteobacteria	Neisseriales	Neisseriaceae	Neisseria	0.00 ± 0.00	0.00 ± 0.01	0.00 ± 0.01	0.04 ± 0.03	0.01	0.17
Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	Pelomonas	0.00 ± 0.00	0.08 ± 0.16	0.00 ± 0.00	0.00 ± 0.00	0.42	1.00
Proteobacteria	Gammaproteobacteria	Pseudomonadales	Pseudomonadaceae	Pseudomonas	0.33 ± 0.62	0.36 ± 0.61	0.04 ± 0.02	0.46 ± 0.34	0.63	0.99
Proteobacteria	Gammaproteobacteria	Enterobacteriales	Enterobacteriaceae	Serratia	0.00 ± 0.01	0.01 ± 0.01	0.00 ± 0.01	0.00 ± 0.00	0.71	0.99
Proteobacteria	Alphaproteobacteria	Sphingomonadales	Sphingomonadaceae	Sphingomonas	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	0.01 ± 0.01	0.42	1.02
Proteobacteria	Gammaproteobacteria	Xanthomonadales	Xanthomonadaceae	Stenotrophomonas	0.03 ± 0.07	0.05 ± 0.07	0.01 ± 0.01	0.01 ± 0.02	0.58	1.03
Proteobacteria	Betaproteobacteria	Burkholderiales	Alcaligenaceae	Sutterella	2.56 ± 1.43	2.26 ± 1.37	1.14 ± 0.62			