

FIGURE 1

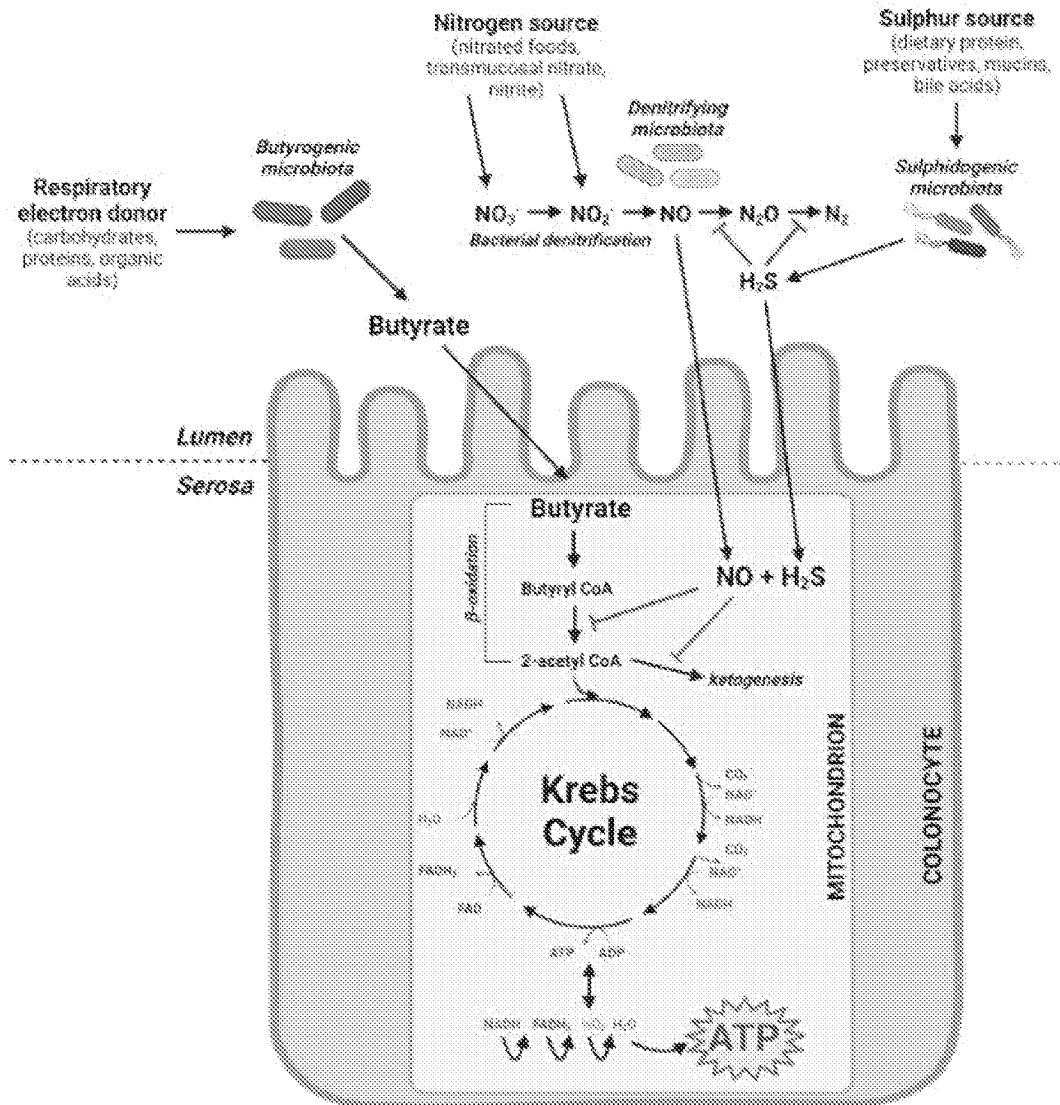


FIGURE 2

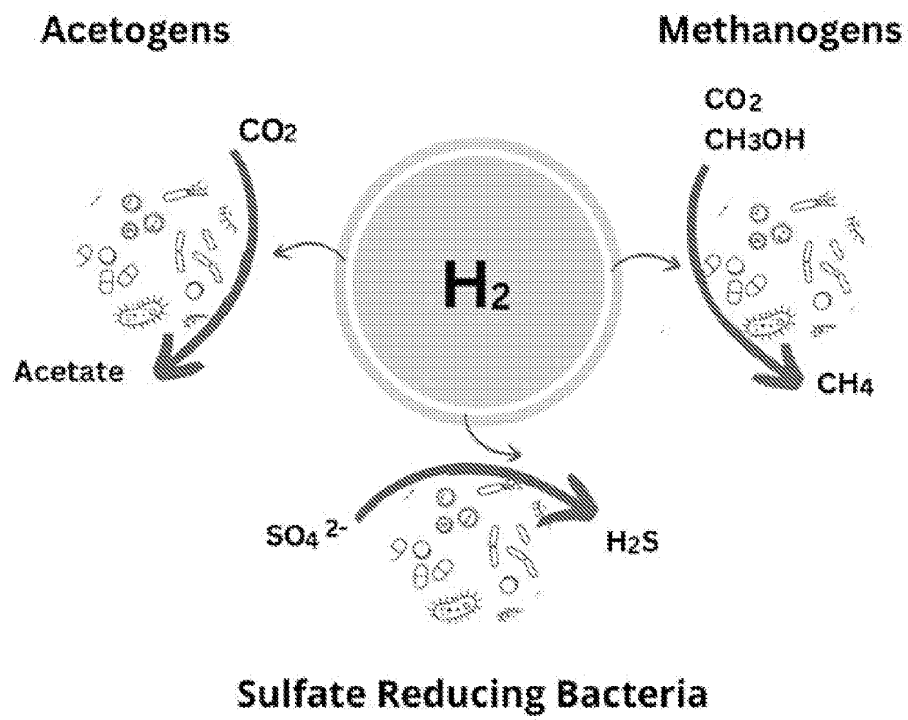


FIGURE 3

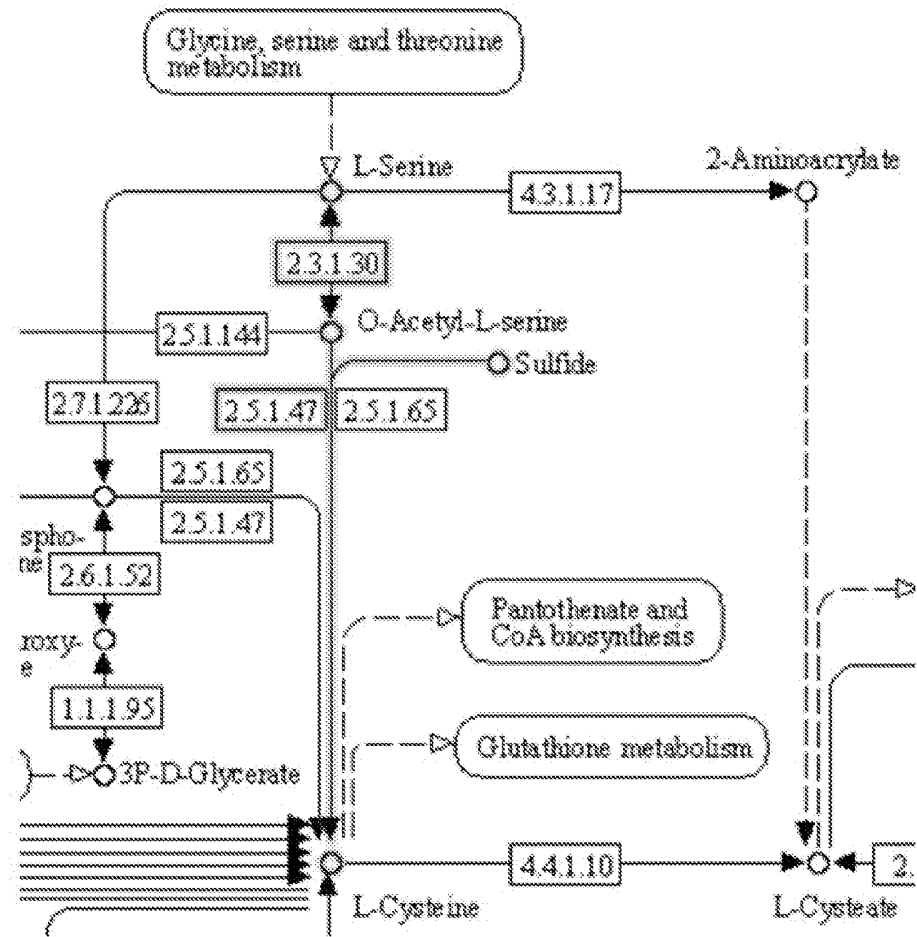


FIGURE 4

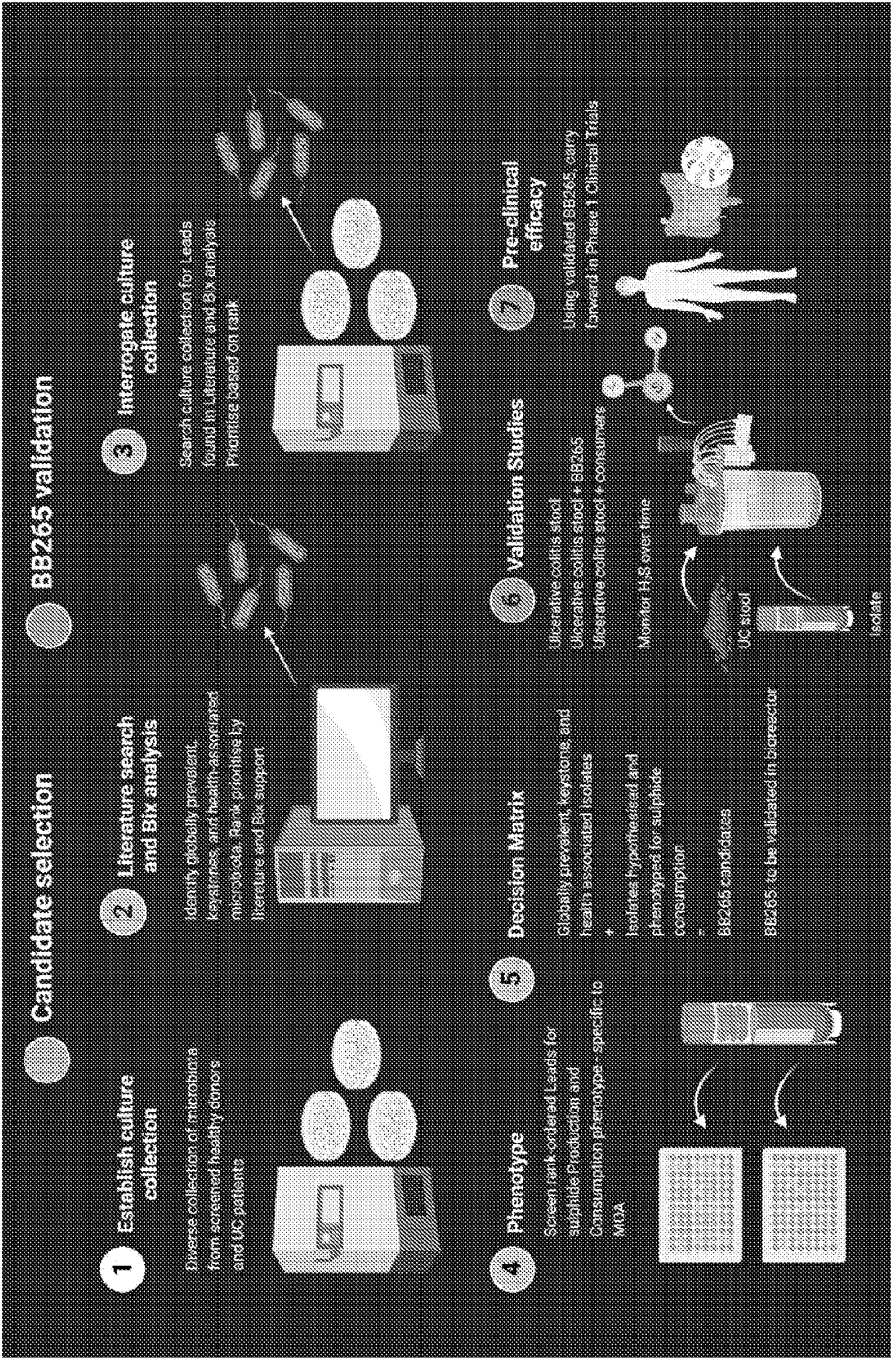


FIGURE 5

ISOLATE ID	Sequence type	Database	Taxonomy (by name)		Taxa (by NCBI taxonomy ID)						
			Species	Genus	Family	Order	Class	Phylum	Species	Genus	Family
* bb0002	WGS	GTDB release 220	Bifidobacterium longum	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	216816	1678	31953
* bb0028	WGS	GTDB release 220	Coproccocus	Coproccocus	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	N/A	33042	186803
* bb0045	WGS	GTDB release 220	Faecalibacillus intestinalis	Faecalibacillus	Coprobacillaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	1982626	2678885	2810280
* bb0076	WGS	GTDB release 220	Collinsella aerofaciens K	Collinsella	Coriobacteriaceae	Coriobacteriales	Coriobacteria	Actinomycetota	74426	102106	84107
* bb0085	WGS	GTDB release 220	Bifidobacterium adolescentis	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	1680	1678	31953
* bb0099	WGS	GTDB release 220	Streptococcus	Streptococcus	Streptococcaceae	Lactobacillales	Bacilli	Bacillota	1304	1301	186826
* bb0102	16S	NCBI 16S RefSeq release 209	Roseburia inulinivorans	Roseburia	Lachnospiraceae	Eubacteriales	Clostridia	Bacillota	360807	841	186803
* bb0104	16S	NCBI 16S RefSeq release 209	Roseburia inulinivorans	Roseburia	Lachnospiraceae	Eubacteriales	Clostridia	Bacillota	360807	841	186803
* bb0109	WGS	GTDB release 220	Roseburia inulinivorans	Roseburia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	360807	841	186803
* bb0133	WGS	GTDB release 220	Coproccocus A catus	Coproccocus	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	116085	33042	186803
* bb0150	WGS	GTDB release 220	Parabacteroides distansoni	Parabacteroides	Tannerellaceae	Bacteroidales	Bacteroidia	Bacteroidota	823	375288	2005525
* bb0153	WGS	GTDB release 220	Blautia A massiliensis	Blautia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	1737424	572511	186803
* bb0162	WGS	GTDB release 220	Mediterraneibacter torques	Mediterraneibacter	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	33035	2316020	186803
* bb0163	WGS	GTDB release 220	Bifidobacterium pseudocatenulatum	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	28026	1678	31953
* bb0171	WGS	GTDB release 220	Blautia A massiliensis	Blautia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	1737424	572511	186803
* bb0185	WGS	GTDB release 220	Bifidobacterium bifidum	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	1681	1678	31953
* bb0192	WGS	GTDB release 220	Bacteroides eggertii	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	28111	816	815
* bb0196	WGS	GTDB release 220	Bacteroides	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	N/A	816	815
* bb0197	WGS	GTDB release 220	Alistipes finegoldii	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	214856	239759	171550
* bb0198	WGS	GTDB release 220	Eubacterium limosum	Eubacterium	Eubacteriaceae	Eubacteriales	Clostridia	Bacillota	1736	1730	186806
* bb0202	16S	NCBI 16S RefSeq release 209	Bifidobacterium longum	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	216816	1678	31953
* bb0203	WGS	GTDB release 220	Blautia stercoris	Blautia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	871664	572511	186803
* bb0212	16S	NCBI 16S RefSeq release 209	Flavonifractor plautii	Flavonifractor	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	292800	946234	216572
* bb0214	WGS	GTDB release 220	Ruminococcus bicirculans	Ruminococcus	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	1160721	1263	216572
* bb0219	16S	NCBI 16S RefSeq release 209	Flavonifractor plautii	Flavonifractor	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	292800	946234	216572
* bb0229	WGS	GTDB release 220	Alistipes onderdonkii	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	328813	239759	171550
* bb0230	WGS	GTDB release 220	Phocaeicola	Phocaeicola	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	387090	909556	815
* bb0233	WGS	GTDB release 220	Prevotella copri B	Prevotella	Prevotellaceae	Bacteroidales	Bacteroidia	Bacteroidota	165179	2974221	171552
* bb0245	WGS	GTDB release 220	Clostridium butyricum	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacillota	1492	1485	31979
* bb0284	WGS	GTDB release 220	Bacteroides uniformis	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	820	816	815
* bb0287	WGS	GTDB release 220	Alistipes shahii	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	328814	239759	171550
* bb0289	16S	NCBI 16S RefSeq release 209	[Clostridium] hyemona	[Clostridium]	Lachnospiraceae	Eubacteriales	Clostridia	Bacillota	89153	1485	186803
* bb0290	WGS	GTDB release 220	Exibacter hyemona	Exibacter	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	N/A	1918452	186803
* bb0291	16S	NCBI 16S RefSeq release 209	[Clostridium] hyemona	[Clostridium]	Lachnospiraceae	Eubacteriales	Clostridia	Bacillota	89153	1485	186803

FIGURE 5 (CONTINUED)

* b0296	WGS	GTDB release 220	Bacteroides salivariae	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroida	291444	816	815	171549	200643	976
* b0297	16S	NCBI 16S RefSeq release 209	Bacteroides salivariae	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroida	291444	816	815	171549	200643	976
* b0300	16S	NCBI 16S RefSeq release 209	Coproccoccus	Coproccoccus	Lachnospiraceae	Eubacteriales	Clostridia	Bacillota	116085	33042	186803	186801	1239	
* b0302	16S	NCBI 16S RefSeq release 209	Bifidobacterium adolescentis	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	1680	1678	31953	85004	1760	201174
* b0310	16S	NCBI 16S RefSeq release 209	Streptococcus salivarius	Streptococcus	Streptococcaceae	Lactobacillales	Bacilli	Bacillota	1304	1301	1300	186826	91061	1239
* b0312	WGS	GTDB release 220	Lachnospira	Lachnospira	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	N/A	28050	186803	3085636	186801	1239
* b0313	WGS	GTDB release 220	Anaerostipes hadrus	Anaerostipes	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	649756	207244	186803	3085636	186801	1239
* b0328	16S	NCBI 16S RefSeq release 209	Streptococcus salivarius	Streptococcus	Streptococcaceae	Lactobacillales	Bacilli	Bacillota	1304	1301	1300	186826	91061	1239
* b0331	WGS	GTDB release 220	Lawsoniobacter sp944385665	Lawsoniobacter	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	N/A	2172004	216572	186802	186801	1239
* b0347	WGS	GTDB release 220	Alistipes	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroida	626932	239759	171550	171549	200643	976
* b0352	WGS	GTDB release 220	Blautia A massiliensis	Blautia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	1737424	572511	186803	3085636	186801	1239
* b0360	16S	NCBI 16S RefSeq release 209	Erysipelatoclostridium ramosum	Erysipelatoclostridium	Coprobacillaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	1547	3025755	2810280	526525	526524	1239
* b0363	16S	NCBI 16S RefSeq release 209	Barnesiella	Barnesiella	Barnesiellaceae	Bacteroidales	Bacteroidia	Bacteroida	487174	397864	2005519	171549	200643	976
* b0382	16S	NCBI 16S RefSeq release 209	Intestinimonas butyliproducens	Intestinimonas	Eubacteriales Incertae sedis	Eubacteriales	Clostridia	Bacillota	1297617	1392389	538999	186802	186801	1239
* b0394	WGS	GTDB release 220	Parabacteroides goldsteinii	Parabacteroides	Tannerellaceae	Bacteroidales	Bacteroidia	Bacteroida	328812	375288	2005525	171549	200643	976
* b0385	16S	NCBI 16S RefSeq release 209	Parabacteroides goldsteinii	Parabacteroides	Tannerellaceae	Bacteroidales	Bacteroidia	Bacteroida	328812	375288	2005525	171549	200643	976
* b0386	16S	NCBI 16S RefSeq release 209	Parabacteroides goldsteinii	Parabacteroides	Tannerellaceae	Bacteroidales	Bacteroidia	Bacteroida	328812	375288	2005525	171549	200643	976
* b0389	16S	NCBI 16S RefSeq release 209	Bacteroides cellulosilyticus	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroida	246787	816	815	171549	200643	976
* b0390	16S	NCBI 16S RefSeq release 209	Roseburia intestinalis	Roseburia	Lachnospiraceae	Eubacteriales	Clostridia	Bacillota	166486	841	186803	186802	186801	1239
* b0398	WGS	GTDB release 220	Thomasciavelia ramosa	Thomasciavelia	Coprobacillaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	1547	3025755	2810280	526525	526524	1239
* b0399	16S	NCBI 16S RefSeq release 209	Erysipelatoclostridium ramosum	Erysipelatoclostridium	Coprobacillaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	1547	3025755	2810280	526525	526524	1239
* b0400	16S	NCBI 16S RefSeq release 209	Erysipelatoclostridium ramosum	Erysipelatoclostridium	Coprobacillaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	1547	3025755	2810280	526525	526524	1239
* b0401	WGS	GTDB release 220	Roseburia intestinalis	Roseburia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	166486	841	186803	3085636	186801	1239
* b0405	WGS	GTDB release 220	Massilimicrobiota sp02160865	Massilimicrobiota	Erysipelotrichaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	N/A	1924110	128827	526525	526524	1239
* b0406	WGS	GTDB release 220	Massilimicrobiota merdigallinarum	Massilimicrobiota	Erysipelotrichaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	N/A	1924110	128827	526525	526524	1239
* b0407	16S	NCBI 16S RefSeq release 209	Ligilactobacillus ruminis	Ligilactobacillus	Lactobacillaceae	Lactobacillales	Bacilli	Bacillota	1623	2767887	33958	186826	91061	1239
* b0408	WGS	GTDB release 220	Ligilactobacillus ruminis	Ligilactobacillus	Lactobacillaceae	Lactobacillales	Bacilli	Bacillota	1623	2767887	33958	186826	91061	1239
* b0409	16S	NCBI 16S RefSeq release 209	Ligilactobacillus ruminis	Ligilactobacillus	Lactobacillaceae	Lactobacillales	Bacilli	Bacillota	1623	2767887	33958	186826	91061	1239
* b0416	16S	NCBI 16S RefSeq release 209	Bacteroides humanilactis	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroida	2797859	816	815	171549	200643	976
* b0417	WGS	GTDB release 220	Streptococcus	Streptococcus	Streptococcaceae	Lactobacillales	Bacilli	Bacillota	102684	1301	1300	186826	91061	1239
* b0418	WGS	GTDB release 220	Streptococcus	Streptococcus	Streptococcaceae	Lactobacillales	Bacilli	Bacillota	1304	1301	1300	186826	91061	1239
* b0419	16S	NCBI 16S RefSeq release 209	Roseburia intestinalis	Roseburia	Lachnospiraceae	Eubacteriales	Clostridia	Bacillota	166486	841	186803	186802	186801	1239
* b0422	WGS	GTDB release 220	Eubacterium	Eubacterium	Eubacteriaceae	Eubacteriales	Clostridia	Bacillota	39496	1730	186806	186802	186801	1239
* b0425	WGS	GTDB release 220	Sellimonas intestinalis	Sellimonas	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	1653434	1769710	186803	3085636	186801	1239

FIGURE 5 (CONTINUED)

* bb0427	WGS	GTDB release 220	Thomaslavella sp.iformis	Thomaslavella	Coprobacillaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	29348	3025755	2810280	526525	526524	1239
* bb0430	WGS	GTDB release 220	Clostridium	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacillota	29363	1485	31979	186802	186801	1239
* bb0475	WGS	GTDB release 220	Anaerofustis stercorihominis A	Anaerofustis	Eubacteriaceae	Eubacteriales	Clostridia	Bacillota	214853	264995	186806	186802	186801	1239
* bb0478	1S5	NCBI 165 RefSeq release 209	Collinsella aerofaciens	Collinsella	Coriobacteriaceae	Coriobacteriales	Coriobacteria	Actinomycetota	74426	102106	84107	84999	84998	201174
* bb0479	WGS	GTDB release 220	Coprobacillus	Coprobacillus	Coprobacillaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	100884	100883	2810280	526525	526524	1239
* bb0481	WGS	GTDB release 220	Enorma massiliensis	Enorma	Coriobacteriaceae	Coriobacteriales	Coriobacteria	Actinomycetota	1477161	1477162	84107	84999	84998	201174
* bb0490	WGS	GTDB release 220	Eubacterium callanderi	Eubacterium	Eubacteriaceae	Eubacteriales	Clostridia	Bacillota	53442	1730	186806	186802	186801	1239
* bb0503	WGS	GTDB release 220	Anaerobutyrum hallii	Anaerobutyrum	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	39488	2569097	186803	3085636	186801	1239
* bb0521	WGS	GTDB release 220	Clostridium sp.	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacillota	1506	1485	31979	186802	186801	1239
* bb0523	WGS	GTDB release 220	Anaerostipes hominis	Anaerostipes	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	2025494	207244	186803	3085636	186801	1239
* bb0525	WGS	GTDB release 220	Thomaslavella ramosa	Thomaslavella	Coprobacillaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	1547	3025755	2810280	526525	526524	1239
* bb0526	WGS	GTDB release 220	Thomaslavella ramosa	Thomaslavella	Coprobacillaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	1547	3025755	2810280	526525	526524	1239
* bb0527	1S5	NCBI 165 RefSeq release 209	Erysipelotrichium ramosum	Erysipelotrichium	Coprobacillaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	1547	3025755	2810280	526525	526524	1239
* bb0531	WGS	GTDB release 220	Longicatena caedimuris	Longicatena	Erysipelotrichaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	1796635	1918336	128827	526525	526524	1239
* bb0532	1S5	NCBI 165 RefSeq release 209	Anaerostipes caccae	Anaerostipes	Lachnospiraceae	Eubacteriales	Clostridia	Bacillota	105841	207244	186803	186802	186801	1239
* bb0533	1S5	NCBI 165 RefSeq release 209	Anaerostipes caccae	Anaerostipes	Lachnospiraceae	Eubacteriales	Clostridia	Bacillota	105841	207244	186803	186802	186801	1239
* bb0535	1S5	NCBI 165 RefSeq release 209	Christensenella minuta	Christensenella	Christensenellaceae	Eubacteriales	Clostridia	Bacillota	626937	990721	990719	186802	186801	1239
* bb0536	WGS	GTDB release 220	Christensenella minuta	Christensenella	Christensenellaceae	Christensenellales	Clostridia	Bacillota	626937	990721	990719	3082768	186801	1239
* bb0540	1S5	NCBI 165 RefSeq release 209	Lachnoanaerobaculum glugivallis	Lachnoanaerobaculum	Lachnospiraceae	Eubacteriales	Clostridia	Bacillota	2490855	1164882	186803	186802	186801	1239
* bb0541	WGS	GTDB release 220	Lachnoanaerobaculum sp0402756385	Lachnoanaerobaculum	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	N/A	1164882	186803	3085636	186801	1239
* bb0627	1S5	NCBI 165 RefSeq release 209	Flavonifractor plautii	Flavonifractor	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	292800	946234	216572	186802	186801	1239
bb0012	WGS	GTDB release 220	Collinsella	Collinsella	Coriobacteriaceae	Coriobacteriales	Coriobacteria	Actinomycetota	N/A	102106	84107	84999	84998	201174
bb0074	WGS	GTDB release 220	Bacteroides caccae	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	47678	816	815	171549	200643	976
bb0135	WGS	GTDB release 220	Ruminococcus E bromii	Ruminococcus	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	40518	1763	216572	186802	186801	1239
bb0140	1S5	NCBI 165 RefSeq release 209	Coproccoccus comes	Coproccoccus	Lachnospiraceae	Eubacteriales	Clostridia	Bacillota	410072	33042	186803	186802	186801	1239
bb0147	WGS	GTDB release 220	Parabacteroides	Parabacteroides	Tannerellaceae	Bacteroidales	Bacteroidia	Bacteroidota	45503	375288	2005525	171549	200643	976
bb0174	1S5	NCBI 165 RefSeq release 209	Prevotella copri	Prevotella	Prevotellaceae	Bacteroidales	Bacteroidia	Bacteroidota	165179	838	171552	171549	200643	976
bb0175	1S5	NCBI 165 RefSeq release 209	Blautia provencensis	Blautia	Lachnospiraceae	Eubacteriales	Clostridia	Bacillota	1938059	572513	186803	186802	186801	1239
bb0183	WGS	GTDB release 220	Coprobacter secundus	Coprobacter	Barnesiellaceae	Bacteroidales	Bacteroidia	Bacteroidota	1501392	1348911	2005519	171549	200643	976
bb0189	WGS	GTDB release 220	Bacteroides	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	371001	816	815	171549	200643	976
bb0204	WGS	GTDB release 220	Soilbaculum marinosulficum	Soilbaculum	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	2780922	2842531	216572	186802	186801	1239
bb0206	1S5	NCBI 165 RefSeq release 209	Alistipes communis	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	2585118	239759	171550	171549	200643	976
bb0209	1S5	NCBI 165 RefSeq release 209	Alistipes finegoldii	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	214856	239759	171550	171549	200643	976
bb0216	WGS	GTDB release 220	Ruminococcus E bromii	Ruminococcus	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	40518	1263	216572	186802	186801	1239
bb0244	WGS	GTDB release 220	Clostridium butyricum	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacillota	1492	1485	31979	186802	186801	1239

FIGURE 5 (CONTINUED)

bb0351	1S5	NCBI release 209	RefSeq	Escherichia fergusonii	Escherichia	Enterobacteriaceae	Enterobacterales	Gammaproteobact eria	Pseudomonadota	564	561	543	91347	1236	1224
bb0382	1S5	NCBI release 209	RefSeq	Bacteroides intestinalis	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidia	329854	816	815	171549	206643	976
bb03317	WGS	GTDB release 220	RefSeq	Vesicomonas coprocola	Vesicomonas	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	2714355	2892396	216572	186802	186801	1239
bb0341	WGS	GTDB release 220	RefSeq	Alistipes dispar	Alistipes	Rikenellaceae	Eubacteriales	Clostridia	Bacteroidia	2588119	239759	171550	171549	206643	976
bb0345	WGS	GTDB release 220	RefSeq	Alistipes putredinis	Alistipes	Rikenellaceae	Eubacteriales	Clostridia	Bacteroidia	28117	239759	171550	171549	206643	976
bb0354	1S5	NCBI release 209	RefSeq	Akkermansia muciniphila	Akkermansia	Akkermansiaceae	Verrucomicrobiales	Verrucomicrobia	Verrucomicrobiota	239935	239934	1647988	48461	203494	74201
bb0366	WGS	GTDB release 220	RefSeq	Akkermansia muciniphila	Akkermansia	Akkermansiaceae	Verrucomicrobiales	Verrucomicrobia	Verrucomicrobiota	239935	239934	1647988	48461	203494	74201
bb0369	1S5	NCBI release 209	RefSeq	Alistipes indistinctus	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidia	626932	239759	171550	171549	206643	976
bb0371	1S5	NCBI release 209	RefSeq	Alistipes senegalensis	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidia	1288421	239759	171550	171549	206643	976
bb0374	1S5	NCBI release 209	RefSeq	Anaerobutylicum hallii	Anaerobutylicum	Lachnospiraceae	Eubacteriales	Clostridia	Bacillota	39488	2569097	186803	186802	186801	1239
bb0377	1S5	NCBI release 209	RefSeq	[Clostridium] scindens	[Clostridium]	Lachnospiraceae	Eubacteriales	Clostridia	Bacillota	29347	1485	186803	186802	186801	1239
bb0379	WGS	GTDB release 220	RefSeq	Clostridium AP	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacillota	29347	1485	31979	186802	186801	1239
bb0387	1S5	NCBI release 209	RefSeq	Parabacteroides johnsonii	Parabacteroides	Tannerellaceae	Bacteroidales	Bacteroidia	Bacteroidia	387661	375288	2005525	171549	206643	976
bb0392	1S5	NCBI release 209	RefSeq	Prevotella copri	Prevotella	Prevotellaceae	Bacteroidales	Bacteroidia	Bacteroidia	165179	838	171552	171549	206643	976
bb0415	WGS	GTDB release 220	RefSeq	Romboutsia sp.	Romboutsia	Peptostreptococcaceae	Peptostreptococcales	Clostridia	Bacillota	1965302	1501226	186804	3082720	186801	1239
bb0424	WGS	GTDB release 220	RefSeq	Ruminoclostridium siratum	Ruminoclostridium	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	39492	1508657	216572	186802	186801	1239
bb0428	WGS	GTDB release 220	RefSeq	Dorea A longicatena B	Dorea	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	88431	189330	186803	3085636	186801	1239
bb0433	WGS	GTDB release 220	RefSeq	Lactococcus lactis	Lactococcus	Streptococcaceae	Lactobacillales	Bacilli	Bacillota	1358	1357	1300	186826	91061	1239
bb0435	WGS	GTDB release 220	RefSeq	Blautia A welexiae	Blautia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	418240	572511	186803	3085636	186801	1239
bb0438	1S5	NCBI release 209	RefSeq	Negativibacillus massiliensis	Negativibacillus	N/A	N/A	N/A	Bacillota	1871035	1980693	N/A	N/A	N/A	1239
bb0439	1S5	NCBI release 209	RefSeq	Coprotherobacter fastidiosus	Coprotherobacter	Barnesiellaceae	Bacteroidales	Bacteroidia	Bacteroidia	1099853	1348911	2005519	171549	206643	976
bb0447	WGS	GTDB release 220	RefSeq	Merdibacter merdibacillatus	Merdibacter	Erysipelotrichaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	2838693	1935200	128827	526525	526524	1239
bb0451	1S5	NCBI release 209	RefSeq	Peptoniphilus grossensis	Peptoniphilus	Peptoniphilaceae	Tissierellales	Tissierellia	Bacillota	1465756	162289	1570339	1737405	2E-06	1239
bb0457	WGS	GTDB release 220	RefSeq	Merdibacter merdibacillatus	Merdibacter	Erysipelotrichaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	2838694	1935200	128827	526525	526524	1239
bb0460	1S5	NCBI release 209	RefSeq	[Clostridium] innocuum	[Clostridium]	Coprotherobacteriaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	1522	1485	2810280	526525	526524	1239
bb0461	1S5	NCBI release 209	RefSeq	Clostridium perfringens	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacillota	1502	1485	31979	186802	186801	1239
bb0467	1S5	NCBI release 209	RefSeq	Flavonifractor plautii	Flavonifractor	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	292800	946234	216572	186802	186801	1239
bb0468	WGS	GTDB release 220	RefSeq	Fimivivens sp200113995	Candidatus Fimivivens	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	N/A	2840632	216572	186802	186801	1239
bb0470	WGS	GTDB release 220	RefSeq	Lutisheima tenuis	Fimivivens	Christensenellaceae	Christensenellales	Clostridia	Bacillota	2763454	2944144	990719	3082768	186801	1239
bb0472	WGS	GTDB release 220	RefSeq	U6A1394 sp000066845	N/A	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	N/A	N/A	216572	186802	186801	1239
bb0473	WGS	GTDB release 220	RefSeq	Megamonas funiformis	Megamonas	Selenomonadaceae	Selenomonadales	Negativitutes	Bacillota	437857	158846	1843491	909925	909932	1239
bb0476	WGS	GTDB release 220	RefSeq	Bifidobacterium adolescentis	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	1680	1678	31953	85004	1760	201174

FIGURE 5 (CONTINUED)

bb0477	165	NCBI	165	RefSeq	Collinsella aerofaciens	Collinsella	Coriobacteriaceae	Coriobacteriales	Coriobacteriia	Actinomycetota	74426	102106	84107	84999	84998	201174
bb0482	165	NCBI	165	RefSeq	[Ruminococcus] faecis	[Ruminococcus]	Lachnospiraceae	Eubacteriales	Clostridia	Bacillota	592978	1263	186803	186802	186801	1239
bb0483	WGS	GTDB	release 220	RefSeq	Agrobacter rectalis	Eubacterium	Eubacteriaceae	Eubacteriales	Clostridia	Bacillota	39491	1730	186806	186802	186801	1239
bb0485	WGS	GTDB	release 220	RefSeq	Clostridium A leptum	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacillota	1535	1485	31979	186802	186801	1239
bb0489	WGS	GTDB	release 220	RefSeq	Collinsella bouchedurhoniensis	Collinsella	Coriobacteriaceae	Coriobacteriales	Coriobacteriia	Actinomycetota	1907654	102106	84107	84999	84998	201174
bb0492	165	NCBI	165	RefSeq	Bifidobacterium pseudocatenulatum	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	28026	1678	31953	85004	1760	201174
bb0493	165	NCBI	165	RefSeq	Clostridium butyricum	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacillota	1492	1485	31979	186802	186801	1239
bb0494	165	NCBI	165	RefSeq	Bifidobacterium longum	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	216816	1678	31953	85004	1760	201174
bb0495	165	NCBI	165	RefSeq	Paroselenella catena	Paroselenella	Acetobacteriaceae	Coriobacteriales	Coriobacteriia	Actinomycetota	2003188	2082587	1643824	84999	84998	201174
bb0496	165	NCBI	165	RefSeq	Phocaeicola coprocola	Phocaeicola	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	310758	909656	815	171549	200643	976
bb0500	165	NCBI	165	RefSeq	Abasiella argi	Abasiella	Erysipelotrichaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	1671597	2057233	128827	526525	526524	1239
bb0506	165	NCBI	165	RefSeq	Anaerobutyrium hallii	Anaerobutyrium	Lachnospiraceae	Eubacteriales	Clostridia	Bacillota	39488	2569097	186803	186802	186801	1239
bb0508	WGS	GTDB	release 220	RefSeq	Bifidobacterium adolescentis	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	1680	1678	31953	85004	1760	201174
bb0509	WGS	GTDB	release 220	RefSeq	Bifidobacterium adolescentis	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	1680	1678	31953	85004	1760	201174
bb0512	WGS	GTDB	release 220	RefSeq	A Bacillus	Bacillus	Bacillaceae	Bacillales	Bacilli	Bacillota	688666	1386	186817	1385	91061	1239
bb0534	165	NCBI	165	RefSeq	Anaerostipes caecae	Anaerostipes	Lachnospiraceae	Eubacteriales	Clostridia	Bacillota	105841	207244	186803	186802	186801	1239
bb0537	165	NCBI	165	RefSeq	Christensenella minuta	Christensenella	Christensenellaceae	Eubacteriales	Clostridia	Bacillota	676937	990721	990719	186802	186801	1239
bb0538	WGS	GTDB	release 220	RefSeq	Lacrimispora saccharolytica	Lacrimispora	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	84030	2719231	186803	3085636	186801	1239
bb0539	WGS	GTDB	release 220	RefSeq	Phocaeicola coprocola	Phocaeicola	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	310758	909656	815	171549	200643	976
bb0631	165	NCBI	165	RefSeq	Vescimonas fastidiosa	Vescimonas	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	2714353	2892396	216572	186802	186801	1239

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FIGURE 6

Refer to sequence identification files incorporated by this reference. (See SEQ ID NOs 1 to 143. V3-V4 16S sequences for 143 isolates. These are presented in the same order as the isolates 1 to 143 presented in Figure 9).

FIGURE 7

Refer to sequence identification files incorporated by this reference. (See SEQ ID NOs 144 to 286. Full length 16S sequences for 143 isolates. These are presented in the same order as the isolates 1 to 143 presented in Figure 9).

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FIGURE 8A

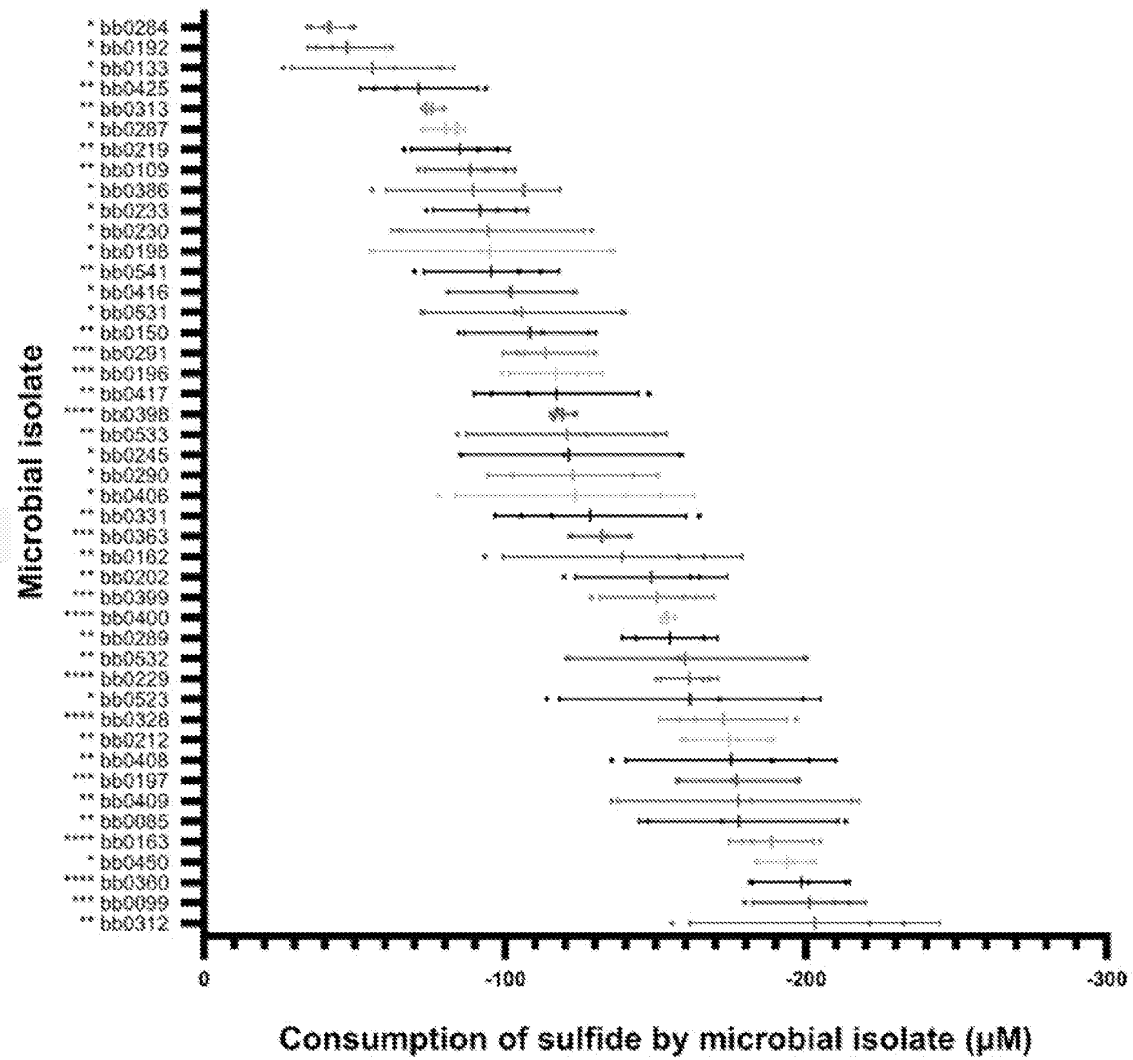


FIGURE 8B

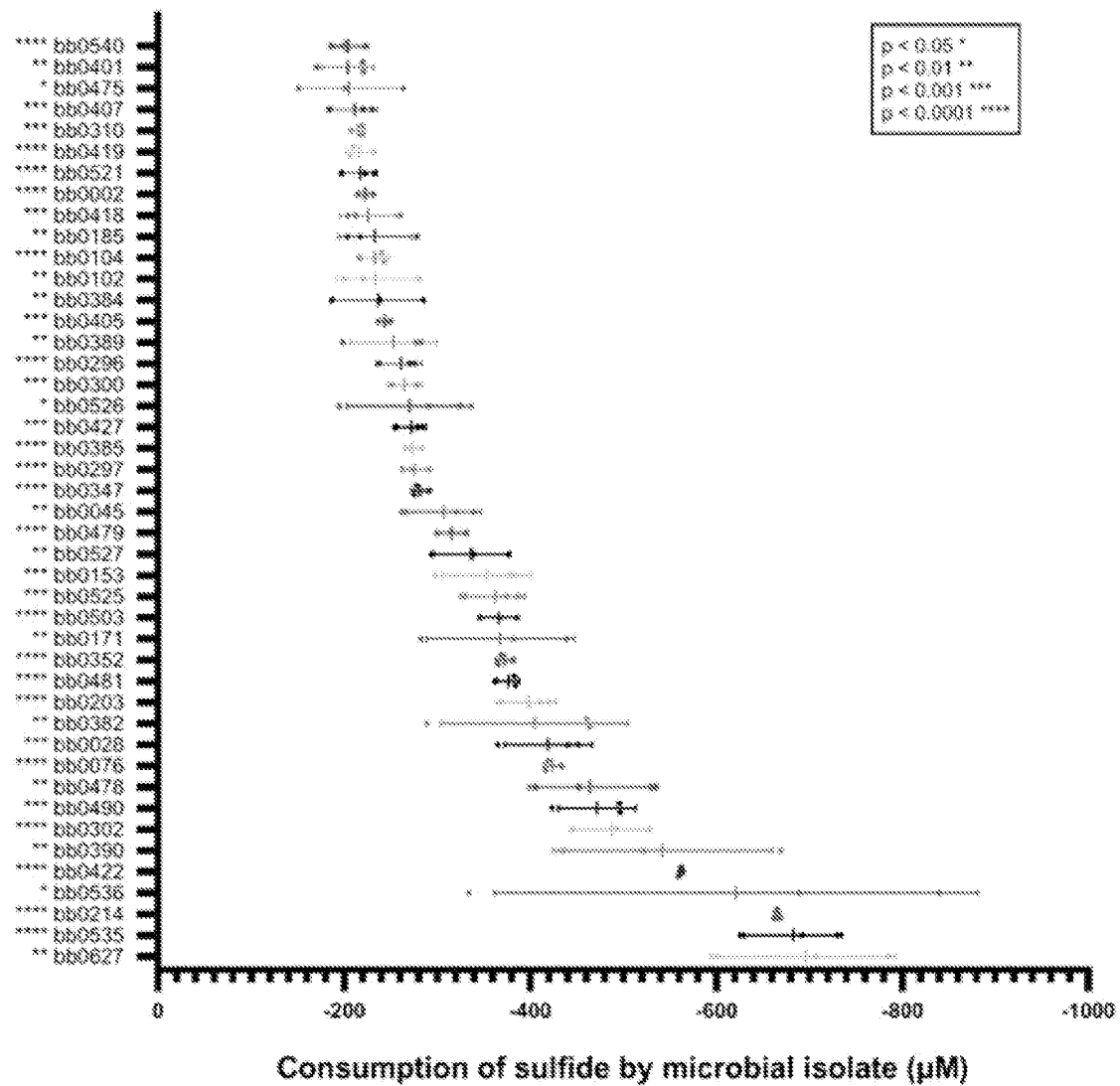


FIGURE 9

Isolate ID	Sequence type	Database	Species	Genus	Family	Order	Class	Phylum	Species	Genus	NCBI Family	NCBI Order	NCBI Class	NCBI Phylum
bb0541	WGS	GTDB release 220	Lachnospirillum	Lachnospirillum	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	N/A	116482	186003	3085636	186001	1239
bb0538	WGS	GTDB release 220	Procaecicola	Procaecicola	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	310298	906666	815	171549	200643	976
bb0538	WGS	GTDB release 220	Lactinospira	Lactinospira	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	84030	2719231	186003	3085636	186001	1239
bb0536	WGS	GTDB release 220	Christensenella	Christensenella	Christensenellaceae	Christensenellales	Clostridia	Bacillota	626937	990721	990719	3082768	186001	1239
bb0531	WGS	GTDB release 220	Longicatena	Longicatena	Eysipetrichaceae	Eysipetrichales	Eysipetrichia	Bacillota	1796635	1918536	128827	526525	526524	1239
bb0529	WGS	GTDB release 220	Barnesiella	Barnesiella	Barnesiellaceae	Bacteroidales	Bacteroidia	Bacteroidota	487174	397864	2005519	171549	200643	976
bb0526	WGS	GTDB release 220	Thomasiella	Thomasiella	Coprobaclaceae	Eysipetrichales	Eysipetrichia	Bacillota	1547	3025755	2810280	526525	526524	1239
bb0525	WGS	GTDB release 220	Thomasiella	Thomasiella	Coprobaclaceae	Eysipetrichales	Eysipetrichia	Bacillota	1547	3025755	2810280	526525	526524	1239
bb0523	WGS	GTDB release 220	Anaerostipes	Anaerostipes	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	2025494	207244	186003	3085636	186001	1239
bb0521	WGS	GTDB release 220	Clostridium	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacillota	1506	1485	31979	106902	186001	1239
bb0518	WGS	GTDB release 220	Massilioclostridium	Massilioclostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacillota	N/A	193927	31979	186802	186001	1239
bb0516	WGS	GTDB release 220	Megamonas	Megamonas	Selenomonadaceae	Selenomonadales	Negativicutes	Bacillota	437697	159846	1843491	909529	909532	1239
bb0517	WGS	GTDB release 220	Finigodia	Finigodia	Peptoniphilaceae	Tissierellales	Tissierella	Bacillota	1260	150022	1570339	1737405	1737404	1239
bb0514	WGS	GTDB release 220	Lactococcus	Lactococcus	Streptococcaceae	Lactobacillales	Bacilli	Bacillota	1940789	1357	1300	186826	91061	1239
bb0513	WGS	GTDB release 220	Lactococcus	Lactococcus	Streptococcaceae	Lactobacillales	Bacilli	Bacillota	1358	1357	1300	186826	91061	1239
bb0512	WGS	GTDB release 220	Bacillus	Bacillus	Bacillaceae	Bacillales	Bacilli	Bacillota	658666	1386	186817	1385	91061	1239
bb0510	WGS	GTDB release 220	Bifidobacterium	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	28026	1678	31953	85004	1760	201174
bb0509	WGS	GTDB release 220	Bifidobacterium	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	1680	1678	31953	85004	1760	201174
bb0506	WGS	GTDB release 220	Bifidobacterium	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	1680	1678	31953	85004	1760	201174
bb0507	WGS	GTDB release 220	Porphyromonas	Porphyromonas	Porphyromonadaceae	Bacteroidales	Bacteroidia	Bacteroidota	28123	836	171551	171549	200643	976
bb0503	WGS	GTDB release 220	Anaerobutyrum	Anaerobutyrum	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	39488	2569097	186003	3085636	186001	1239
bb0502	WGS	GTDB release 220	Anaerostipes	Anaerostipes	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	105841	207244	186003	3085636	186001	1239
bb0501	WGS	GTDB release 220	Annelibacterium	Annelibacterium	Eysipetrichaceae	Eysipetrichales	Eysipetrichia	Bacillota	2583452	2740767	128827	526525	526524	1239
bb0490	WGS	GTDB release 220	Eubacterium	Eubacterium	Eubacteriaceae	Eubacteriales	Clostridia	Bacillota	53442	1730	186906	186902	186901	1239
bb0489	WGS	GTDB release 220	Collinsella	Collinsella	Coriobacteriaceae	Coriobacteriales	Coriobacteria	Actinomycetota	1907654	102106	84107	84999	84998	201174
bb0485	WGS	GTDB release 220	Clostridium	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacillota	1535	1485	31979	186802	186001	1239
bb0483	WGS	GTDB release 220	Agathobacter	Agathobacter	Eubacteriaceae	Eubacteriales	Clostridia	Bacillota	59451	1730	186906	186902	186001	1239
bb0481	WGS	GTDB release 220	Enorma	Enorma	Coriobacteriaceae	Coriobacteriales	Coriobacteria	Actinomycetota	1472761	1472762	84107	84999	84998	201174

FIGURE 9 (CONTINUED)

bb0460	WGS	GTDB release 220	Anaerodigmum sp001304995	Anaerodigmum	Anaerodigmaceae	Lochnosporales	Clostridia	Bacillota	N/A	2039240	3118652	3085636	186601	1239
bb0479	WGS	GTDB release 220	Coprobaecillus cateniformis	Coprobaecillus	Coprobaecillaceae	Erysipelotrichales	Erysipelotricha	Bacillota	100884	100883	2510280	526525	526524	1239
bb0476	WGS	GTDB release 220	Bifidobacterium adolescentis	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	1680	1678	31953	85004	1780	201174
bb0475	WGS	GTDB release 220	Anaerofustis stercofiliformis A	Anaerofustis	Eubacteriaceae	Eubacteriales	Clostridia	Bacillota	214653	264995	166906	186802	186601	1239
bb0473	WGS	GTDB release 220	Megamonas funiformis	Megamonas	Selenomonadaceae	Selenomonadales	Negativicutes	Bacillota	437897	158846	1843491	905929	909932	1239
bb0472	WGS	GTDB release 220	UBA1384 sp090066645	N/A	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	N/A	N/A	216572	186802	186601	1239
bb0471	WGS	GTDB release 220	Anaerotruncus rubrifurans	Anaerotruncus	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	1720200	244127	216572	186802	186601	1239
bb0470	WGS	GTDB release 220	Luoshenia tenuis	Luoshenia	Crispienseniellaceae	Christensenellales	Clostridia	Bacillota	2763654	2944144	990719	3082768	186601	1239
bb0469	WGS	GTDB release 220	NSJ-31 sp090249795	N/A	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	N/A	N/A	216572	186802	186601	1239
bb0468	WGS	GTDB release 220	Fimivibrio sp001139995	Candidatus Fimivibrio	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	N/A	2840632	216572	186802	186601	1239
bb0464	WGS	GTDB release 220	Agathobaculum sp003481705	Agathobaculum	Butyrivibrionaceae	Eubacteriales	Clostridia	Bacillota	N/A	2048137	3085642	186902	186601	1239
bb0457	WGS	GTDB release 220	Merdibacter medipulorum	Merdibacter	Erysipelotrichaceae	Erysipelotrichales	Erysipelotricha	Bacillota	2836694	1935200	128827	526525	526524	1239
bb0452	WGS	GTDB release 220	Paraclostridium dentum	Paraclostridium	Peptostreptococcaceae	Peptostreptococcales	Clostridia	Bacillota	2662455	1849922	186904	3082720	186601	1239
bb0450	WGS	GTDB release 220	Clostridium paraputrificum	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacillota	29363	1485	31979	186802	186601	1239
bb0447	WGS	GTDB release 220	Merdibacter medipulorum	Merdibacter	Erysipelotrichaceae	Erysipelotrichales	Erysipelotricha	Bacillota	2836693	1935200	128827	526525	526524	1239
bb0436	WGS	GTDB release 220	Holdemanella porci A	Holdemanella	Erysipelotrichaceae	Erysipelotrichales	Erysipelotricha	Bacillota	2652276	1573535	128827	526525	526524	1239
bb0435	WGS	GTDB release 220	Blautia Aweilerae	Blautia	Lactinospiraceae	Lochnosporales	Clostridia	Bacillota	418240	572511	186603	3085636	186601	1239
bb0434	WGS	GTDB release 220	Anaerotruncus colliformis	Anaerotruncus	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	169435	244127	216572	186802	186601	1239
bb0433	WGS	GTDB release 220	Lactococcus lactis	Lactococcus	Streptococcaceae	Lactobacillales	Bacilli	Bacillota	1358	1357	1300	186826	91061	1239
bb0431	WGS	GTDB release 220	Alistipes A humilis	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	1470347	239799	171550	171549	200043	976
bb0428	WGS	GTDB release 220	Dorea A longicatena B	Dorea	Lactinospiraceae	Lochnosporales	Clostridia	Bacillota	68431	169300	166903	3085636	186601	1239
bb0427	WGS	GTDB release 220	Thomasclavella sp0010915	Thomasclavella	Coprobaecillaceae	Erysipelotrichales	Erysipelotricha	Bacillota	29348	3025755	2810280	526525	526524	1239
bb0426	WGS	GTDB release 220	Sellimonas intestinalis	Sellimonas	Lactinospiraceae	Lochnosporales	Clostridia	Bacillota	1653434	1769710	186603	3085636	186601	1239
bb0424	WGS	GTDB release 220	Ruminoclostridium siraeum	E. Ruminoclostridium	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	39452	1508657	216572	186902	186601	1239
bb0422	WGS	GTDB release 220	Eubacterium ventriosum	E. Eubacterium	Eubacteriaceae	Eubacteriales	Clostridia	Bacillota	39486	1730	166906	186802	186601	1239
bb0418	WGS	GTDB release 220	Streptococcus salivarius	Streptococcus	Streptococcaceae	Lactobacillales	Bacilli	Bacillota	1304	1301	1300	186826	91061	1239
bb0417	WGS	GTDB release 220	Streptococcus infantarius	Streptococcus	Streptococcaceae	Lactobacillales	Bacilli	Bacillota	102684	1301	1300	186826	91061	1239
bb0415	WGS	GTDB release 220	Romboutsia sp.	Romboutsia	Peptostreptococcaceae	Peptostreptococcales	Clostridia	Bacillota	1965302	1501226	186904	3082720	186601	1239

FIGURE 9 (CONTINUED)

bb0408	WGS	GTDB release 220	Lugliabacillus ruminis	Lugliabacillus	Lactobacillaceae	Lactobacillales	Bacilli	Bacilliota	1623	275787	3958	16626	91061	1239
bb0406	WGS	GTDB release 220	Massilirobota medgalinarum	Massilirobota	Eyspeiorhaceae	Eyspeiorhacales	Eyspeiorhichia	Bacilliota	N/A	1924110	12827	526525	526524	1239
bb0405	WGS	GTDB release 220	Massilirobota sp002160665	Massilirobota	Eyspeiorhaceae	Eyspeiorhacales	Eyspeiorhichia	Bacilliota	N/A	1924110	12827	526525	526524	1239
bb0401	WGS	GTDB release 220	Roseburia intestinalis	Roseburia	Lachnospiraceae	Lachnospirales	Clostridia	Bacilliota	166486	841	16603	3055636	18601	1239
bb0396	WGS	GTDB release 220	Thomasclavella ramosa	Thomasclavella	Coprobaclaceae	Eyspeiorhacales	Eyspeiorhichia	Bacilliota	1547	3025755	2810280	526525	526524	1239
bb0388	WGS	GTDB release 220	Parabacteroides johnsonii	Parabacteroides	Tannerellaceae	Bacteroidales	Bacteroidia	Bacteroidota	387661	375288	2005525	171549	200643	976
bb0384	WGS	GTDB release 220	Parabacteroides gordonii	Parabacteroides	Tannerellaceae	Bacteroidales	Bacteroidia	Bacteroidota	328612	375288	2005525	171549	200643	976
bb0379	WGS	GTDB release 220	Clostridium AP scinders	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacilliota	29347	1485	31979	18602	18601	1239
bb0375	WGS	GTDB release 220	Butyrimonas faecalis	Butyrimonas	Oribacteraceae	Bacteroidales	Bacteroidia	Bacteroidota	2093056	574687	1652321	171549	200643	976
bb0366	WGS	GTDB release 220	Akkermansia muciniphila	Akkermansia	Akkermansiaceae	Verrucomicrobiales	Verrucomicrobia	Verrucomicrobiota	239835	239834	1647988	48461	203494	74201
bb0352	WGS	GTDB release 220	Blautia Akkermansiensis	Blautia	Lachnospiraceae	Lachnospirales	Clostridia	Bacilliota	1737424	572511	16603	3055636	18601	1239
bb0350	WGS	GTDB release 220	Dysosmobacter faecalis	Dysosmobacter	Oscillospiraceae	Eubacteriales	Clostridia	Bacilliota	N/A	2591381	216572	186002	18601	1239
bb0347	WGS	GTDB release 220	Alistipes A indistinctus	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	626532	239759	171550	171549	200643	976
bb0345	WGS	GTDB release 220	Alistipes putredinis	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	28117	239759	171550	171549	200643	976
bb0341	WGS	GTDB release 220	Alistipes clayey	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	2585119	239759	171550	171549	200643	976
bb0334	WGS	GTDB release 220	Butyrimonas virosa	Butyrimonas	Oribacteraceae	Bacteroidales	Bacteroidia	Bacteroidota	544645	574687	1652321	171549	200643	976
bb0331	WGS	GTDB release 220	Lawsonibacter sp944365665	Lawsonibacter	Oscillospiraceae	Eubacteriales	Clostridia	Bacilliota	N/A	2172004	216572	186002	18601	1239
bb0324	WGS	GTDB release 220	Vescimonas sp000545585	Vescimonas	Oscillospiraceae	Eubacteriales	Clostridia	Bacilliota	N/A	2892396	216572	186002	18601	1239
bb0322	WGS	GTDB release 220	Bacteroides fragilis	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	338188	816	815	171549	200643	976
bb0316	WGS	GTDB release 220	Geminger formicilis	Geminger	N/A	Eubacteriales	Clostridia	Bacilliota	745368	204475	N/A	186002	18601	1239
bb0317	WGS	GTDB release 220	Vescimonas coprococla	Vescimonas	Oscillospiraceae	Eubacteriales	Clostridia	Bacilliota	2714355	2892396	216572	186002	18601	1239
bb0313	WGS	GTDB release 220	Anaerostipes hadrus	Anaerostipes	Lactinospiraceae	Lachnospirales	Clostridia	Bacilliota	649756	207244	186003	3055636	18601	1239
bb0312	WGS	GTDB release 220	Lachnospira sp002451515	Lachnospira	Lachnospiraceae	Lachnospirales	Clostridia	Bacilliota	N/A	28050	16603	3055636	18601	1239
bb0296	WGS	GTDB release 220	Bacteroides salyersiae	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	291644	816	815	171549	200643	976
bb0290	WGS	GTDB release 220	Exibacter hyeminae	Exibacter	Lachnospiraceae	Lachnospirales	Clostridia	Bacilliota	N/A	1918452	16603	3055636	18601	1239
bb0288	WGS	GTDB release 220	Hungateella effluvi	Hungateella	Lachnospiraceae	Lachnospirales	Clostridia	Bacilliota	1096246	1649459	16603	3055636	18601	1239
bb0287	WGS	GTDB release 220	Alistipes shahii	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	328614	239759	171550	171549	200643	976
bb0284	WGS	GTDB release 220	Bacteroides uniformis	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	820	816	815	171549	200643	976
bb0245	WGS	GTDB release 220	Clostridium butyricum	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacilliota	1492	1445	31979	186002	18601	1239
bb0244	WGS	GTDB release 220	Clostridium butyricum	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacilliota	1492	1445	31979	186002	18601	1239
bb0235	WGS	GTDB release 220	Ruminococcus B gnarus	Ruminococcus	Lachnospiraceae	Lachnospirales	Clostridia	Bacilliota	33038	2316020	16603	3055636	18601	1239
bb0233	WGS	GTDB release 220	Prevotella copii B	Prevotella	Prevotellaceae	Bacteroidales	Bacteroidia	Bacteroidota	165179	2974351	171549	171549	200643	976

FIGURE 9 (CONTINUED)

bb0231	WGS	G1DB release 220	Bacteroides intestinalis	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	329854	816	815	171549	200643	976
bb0230	WGS	G1DB release 220	Procaecicola coprophilus	Procaecicola	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	387090	909656	815	171549	200643	976
bb0229	WGS	G1DB release 220	Altipes oniderdonkii	Altipes	Rkenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	328813	239759	171550	171549	200643	976
bb0247	WGS	G1DB release 220	Bacteroides stercoris	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	46506	816	815	171549	200643	976
bb0246	WGS	G1DB release 220	Ruminococcus E bromii	Ruminococcus	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	40548	1263	216572	186802	186801	1239
bb0244	WGS	G1DB release 220	Ruminococcus D	Ruminococcus	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	1160721	1263	216572	186802	186801	1239
bb0204	WGS	G1DB release 220	Solibaculum	Solibaculum	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	2780922	2842531	216572	186802	186801	1239
bb0203	WGS	G1DB release 220	Blautia stercoris	Blautia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	871664	572511	186803	3085636	186801	1239
bb0198	WGS	G1DB release 220	Eubacterium limosum	Eubacterium	Eubacteriaceae	Eubacteriales	Clostridia	Bacillota	1736	1730	186806	186802	186801	1239
bb0197	WGS	G1DB release 220	Altipes fleggoidii	Altipes	Rkenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	214856	239759	171550	171549	200643	976
bb0196	WGS	G1DB release 220	Bacteroides	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	N/A	816	815	171549	200643	976
bb0192	WGS	G1DB release 220	Bacteroides egerthii	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	28111	816	815	171549	200643	976
bb0189	WGS	G1DB release 220	Bacteroides	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	371601	816	815	171549	200643	976
bb0188	WGS	G1DB release 220	Bacteroides	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	818	816	815	171549	200643	976
bb0185	WGS	G1DB release 220	Bifidobacterium bifidum	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	1681	1678	31953	85004	1760	201174
bb0183	WGS	G1DB release 220	Corynebacterium	Corynebacterium	Barnesiellaceae	Bacteroidales	Bacteroidia	Bacteroidota	1501382	1348911	2005519	171549	200643	976
bb0182	WGS	G1DB release 220	Ruthenibacterium lactiformans	Ruthenibacterium	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	1550024	1905344	216572	186802	186801	1239
bb0181	WGS	G1DB release 220	Bacteroides intestinalis	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	329854	816	815	171549	200643	976
bb0179	WGS	G1DB release 220	Bacteroides uniformis	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	820	816	815	171549	200643	976
bb0176	WGS	G1DB release 220	Altipes senegalensis	Altipes	Rkenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	1288121	239759	171550	171549	200643	976
bb0171	WGS	G1DB release 220	Blautia A massiliensis	Blautia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	1737424	572511	186803	3085636	186801	1239
bb0166	WGS	G1DB release 220	Bacteroides	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	618	816	815	171549	200643	976
bb0163	WGS	G1DB release 220	Bifidobacterium pseudocatenulatum	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	28026	1678	31953	85004	1760	201174
bb0162	WGS	G1DB release 220	Mediterreneibacter torques	Mediterreneibacter	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	33039	2316020	186803	3085636	186801	1239
bb0153	WGS	G1DB release 220	Blautia A massiliensis	Blautia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	1737424	572511	186803	3085636	186801	1239
bb0150	WGS	G1DB release 220	Parabacteroides distasonis	Parabacteroides	Tannerellaceae	Bacteroidales	Bacteroidia	Bacteroidota	823	375288	2005525	171549	200643	976
bb0149	WGS	G1DB release 220	Benitricus comes	Coproccoccus	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	410672	33042	186803	3085636	186801	1239
bb0147	WGS	G1DB release 220	Parabacteroides merdae	Parabacteroides	Tannerellaceae	Bacteroidales	Bacteroidia	Bacteroidota	46503	375288	2005525	171549	200643	976
bb0142	WGS	G1DB release 220	Roseburia hominis	Roseburia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	301301	841	186803	3085636	186801	1239
bb0141	WGS	G1DB release 220	Enterococcus adenensis	Enterococcus	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	358742	2719313	186803	3085636	186801	1239
bb0139	WGS	G1DB release 220	Procaecicola vulgaris	Procaecicola	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	821	909656	815	171549	200643	976
bb0138	WGS	G1DB release 220	Ruminococcus D	Ruminococcus	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	1160721	1263	216572	186802	186801	1239

FIGURE 9 (CONTINUED)

bb0135	WGS	GTDB release 220	Ruminococcus B	Ruminococcus E. bromii	Oscillospira	Eubacteriales	Clostridia	Bacillota	40518	1263	216572	186802	186801	1239
bb0133	WGS	GTDB release 220	Coproccoccus A calvus	Coproccoccus	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	116085	33042	186803	3085636	186801	1239
bb0130	WGS	GTDB release 220	Odoribacter splanchincus	Odoribacter	Odoribacteraceae	Bacteroidales	Bacteroidia	Bacteroidota	28118	283188	1653231	171549	200643	976
bb0129	WGS	GTDB release 220	Bacteroides nordii	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	291645	816	815	171549	200643	976
bb0126	WGS	GTDB release 220	Phocaecia odini	Phocaecia	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	357276	909656	815	171549	200643	976
bb0117	WGS	GTDB release 220	Bacteroides ovatus	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	28116	816	815	171549	200643	976
bb0109	WGS	GTDB release 220	Roseburia inulinivora	Roseburia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	360807	841	166803	3085636	186801	1239
bb0106	WGS	GTDB release 220	Faecalibacterium duncali	Faecalibacterium	Oscillospira	Eubacteriales	Clostridia	Bacillota	411483	216851	216572	186802	186801	1239
bb0101	WGS	GTDB release 220	Parabacteroides merdae	Parabacteroides	Tamreriaceae	Bacteroidales	Bacteroidia	Bacteroidota	46523	375288	2085425	171549	200643	976
bb0099	WGS	GTDB release 220	Streptococcus salivarius	Streptococcus	Streptococcaceae	Lactobacillales	Bacilli	Bacillota	1304	1301	1300	186826	91061	1239
bb0094	WGS	GTDB release 220	Bacteroides xylanisolvens	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	371601	816	815	171549	200643	976
bb0085	WGS	GTDB release 220	Blifidobacterium adolescentis	Blifidobacterium	Blifidobacteriaceae	Blifidobacteriales	Actinomycetes	Actinomycetota	1680	1678	31953	8504	1760	201174
bb0076	WGS	GTDB release 220	Collinsella aerofaciens K	Collinsella	Coriobacteriaceae	Coriobacteriales	Coriobacteria	Actinomycetota	74426	102106	84107	84999	84998	201174
bb0074	WGS	GTDB release 220	Bacteroides caccae	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	47678	816	815	171549	200643	976
bb0056	WGS	GTDB release 220	Bacteroides xylanisolvens	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	371601	816	815	171549	200643	976
bb0045	WGS	GTDB release 220	Faecalibacillus intestinalis	Faecalibacillus	Coprobaclaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	1982626	2678865	2810280	526525	526524	1239
bb0040	WGS	GTDB release 220	Collinsella sp005216835	Collinsella	Coriobacteriaceae	Coriobacteriales	Coriobacteria	Actinomycetota	N/A	102106	84107	84999	84998	201174
bb0028	WGS	GTDB release 220	Coproccoccus sp002154245	Coproccoccus	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	N/A	33042	186803	3085636	186801	1239
bb0018	WGS	GTDB release 220	Phocaecia vulgatus	Phocaecia	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	821	909656	815	171549	200643	976
bb0012	WGS	GTDB release 220	Collinsella sp00223035	Collinsella	Coriobacteriaceae	Coriobacteriales	Coriobacteria	Actinomycetota	N/A	102106	84107	84999	84998	201174
bb0009	WGS	GTDB release 220	Bacteroides faecis	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	674529	816	815	171549	200643	976
bb0004	WGS	GTDB release 220	Bacteroides uniformis	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	820	816	815	171549	200643	976
bb0002	WGS	GTDB release 220	Blifidobacterium longum	Blifidobacterium	Blifidobacteriaceae	Blifidobacteriales	Actinomycetes	Actinomycetota	216816	1678	31953	8504	1760	201174

FIGURE 10

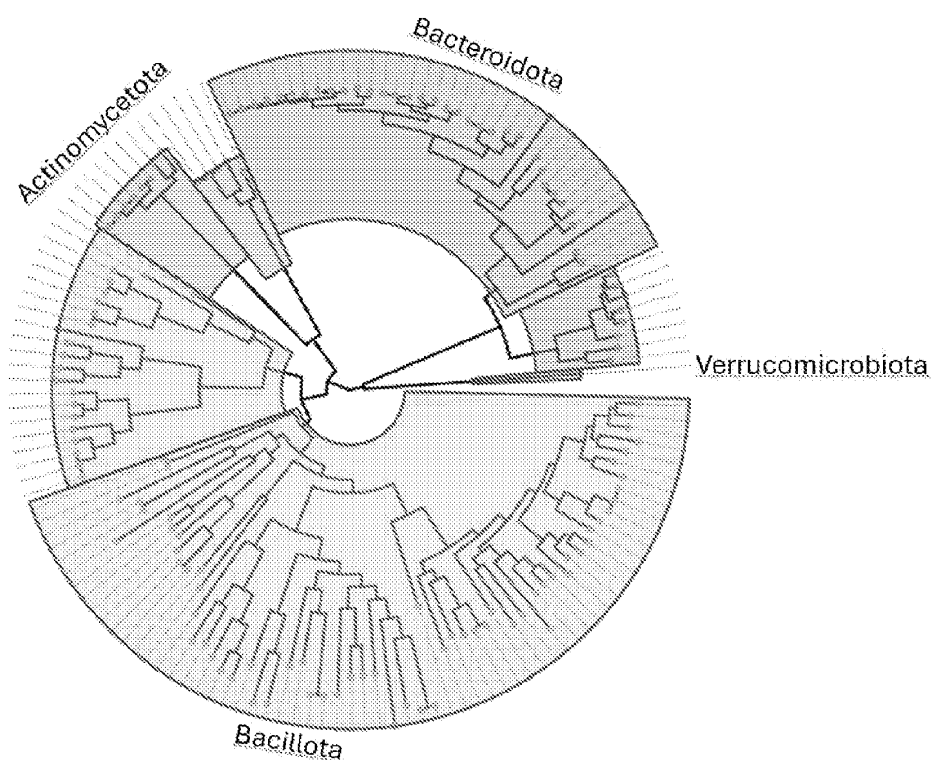


FIGURE 11

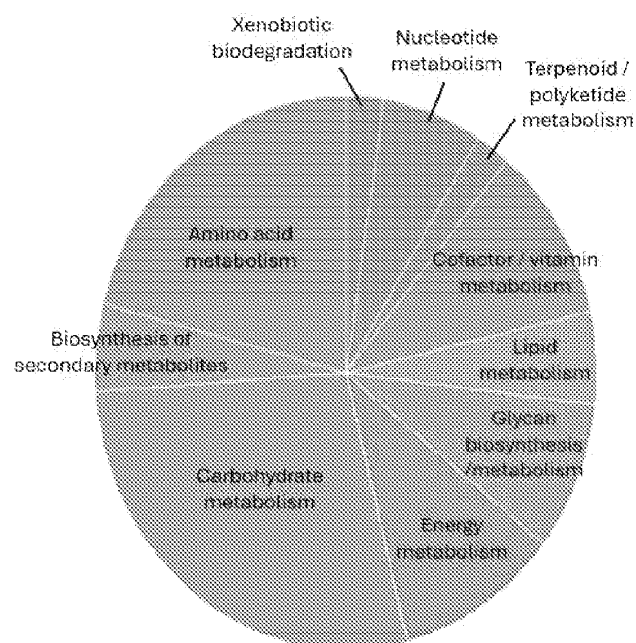


FIGURE 12

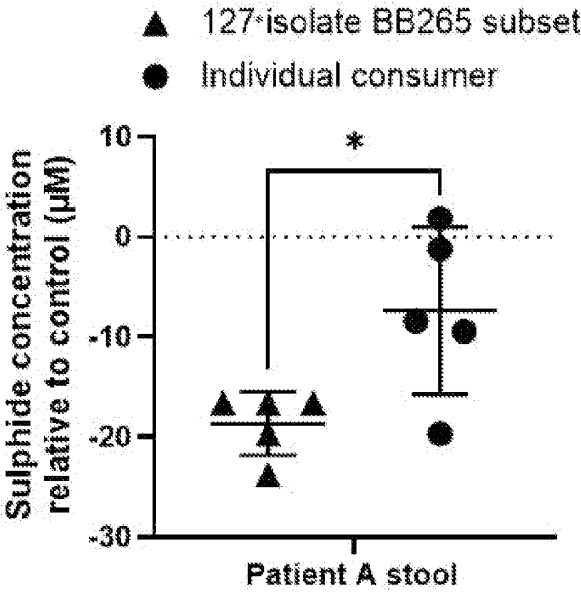


FIGURE 13

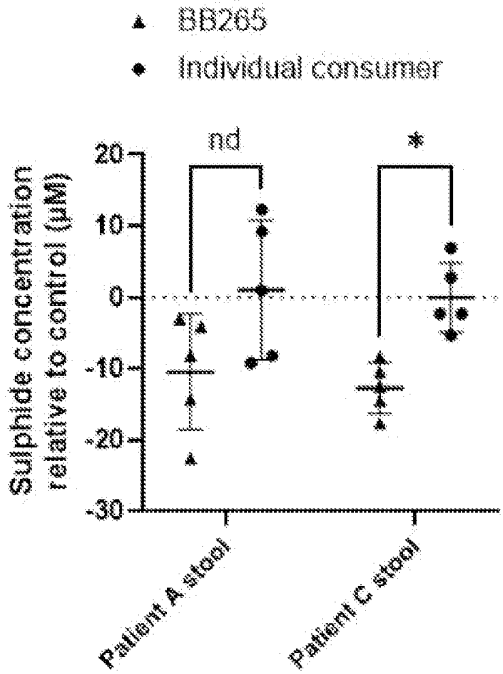


FIGURE 14

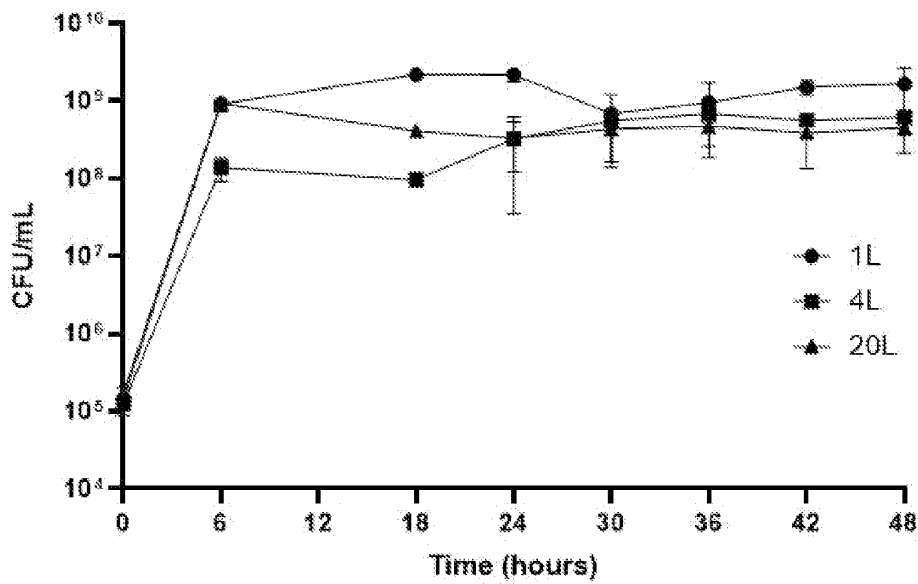


FIGURE 15A

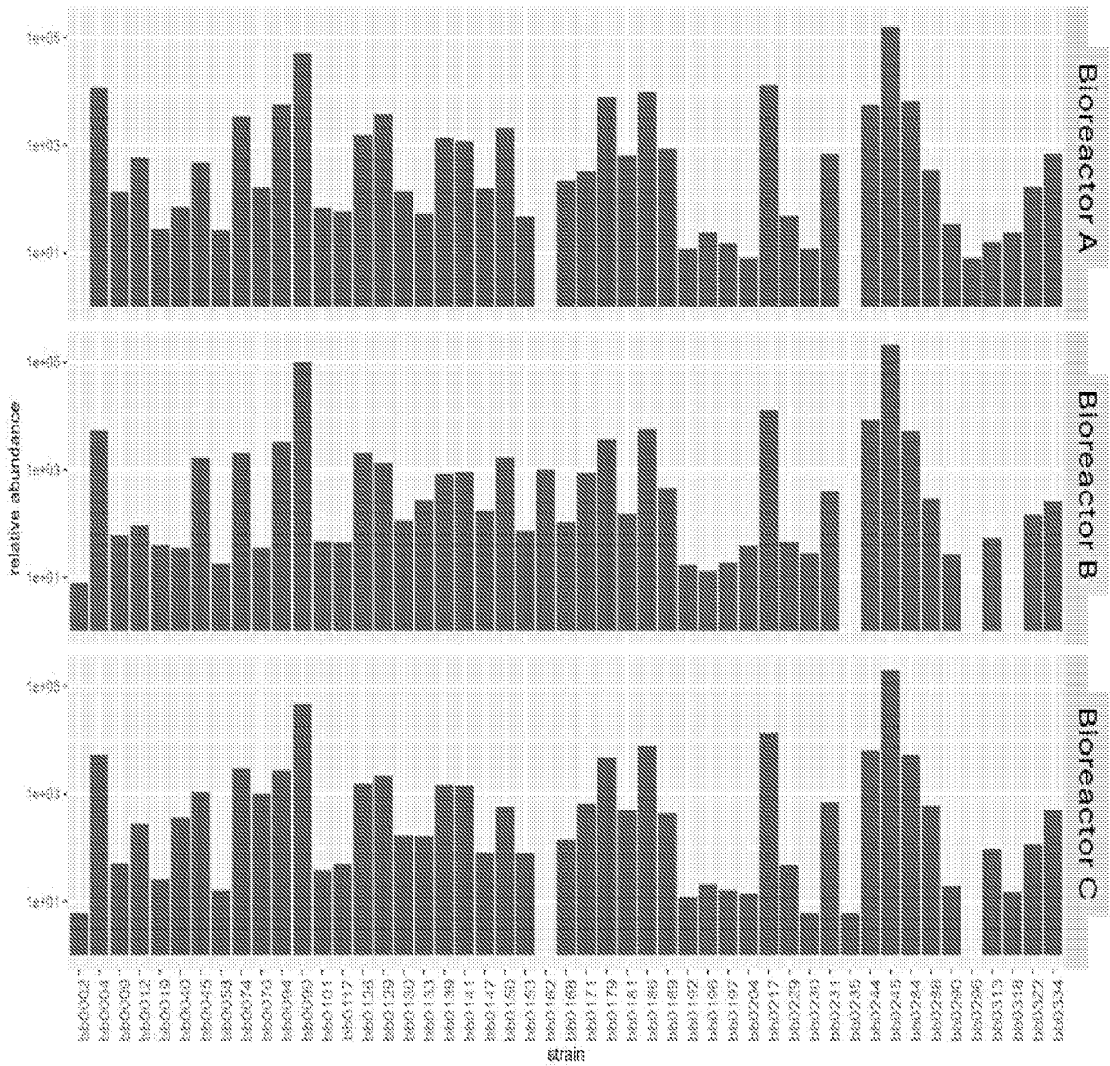


FIGURE 15 B

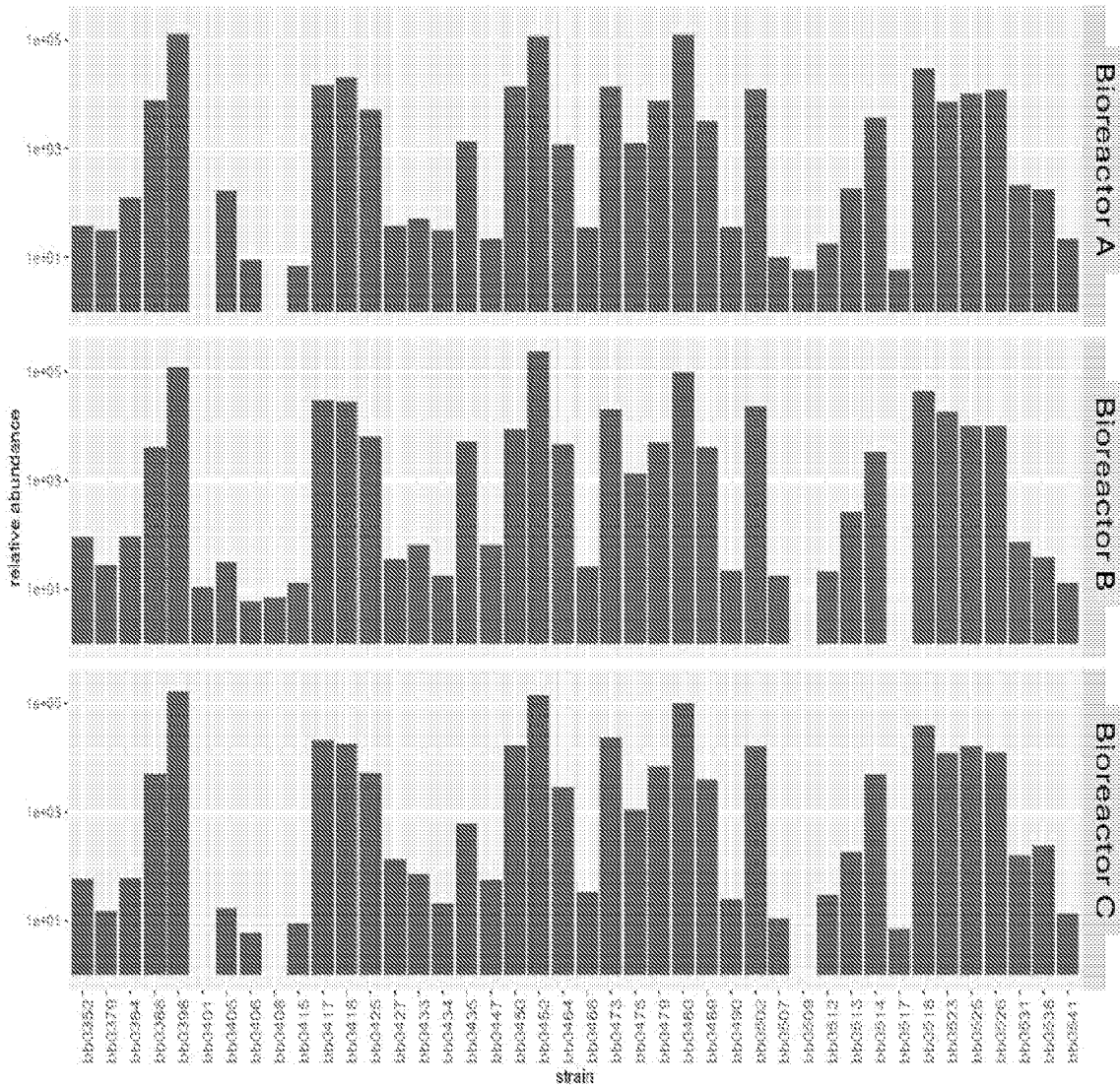
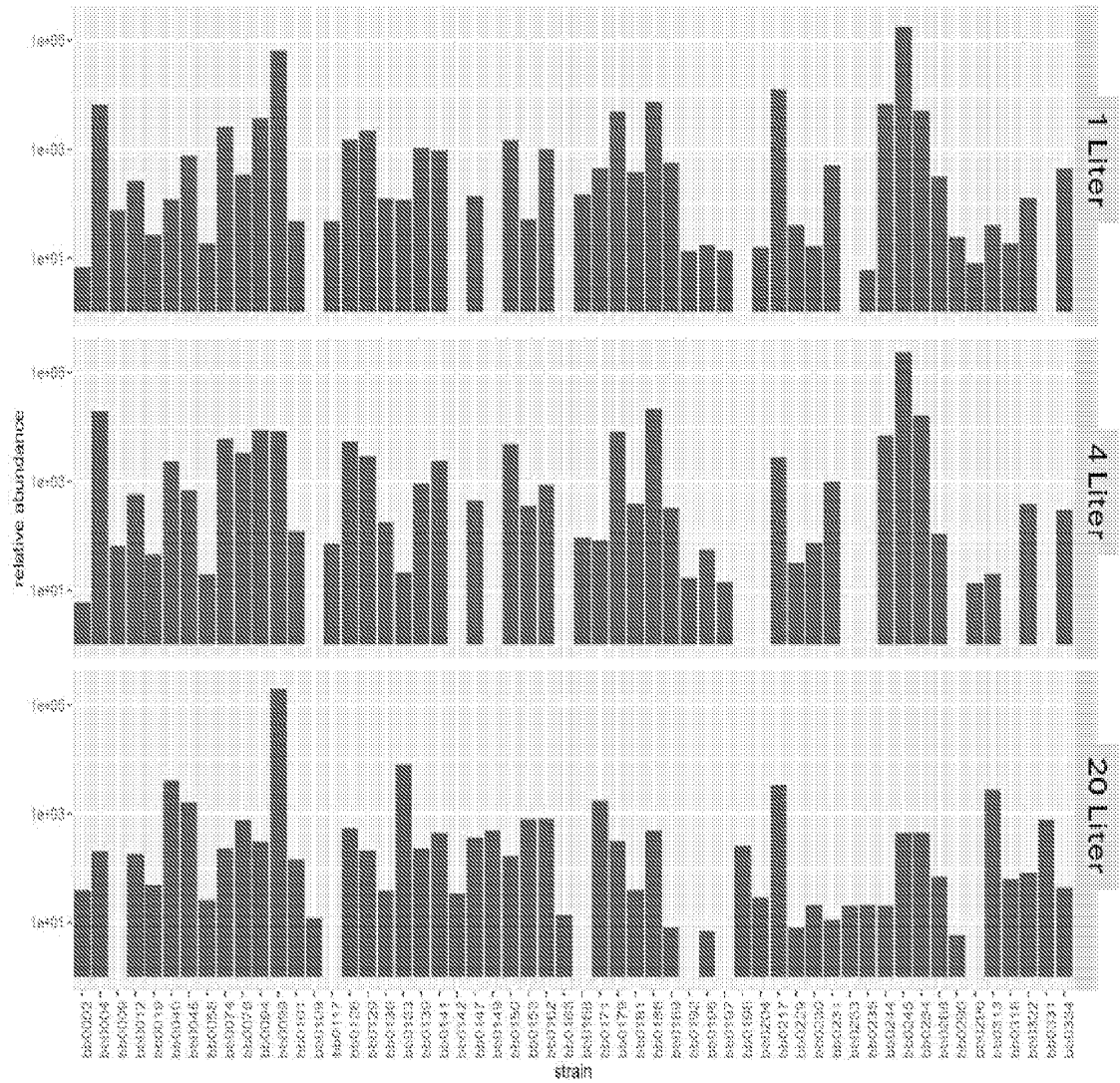


FIGURE 16A



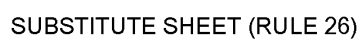


FIGURE 17

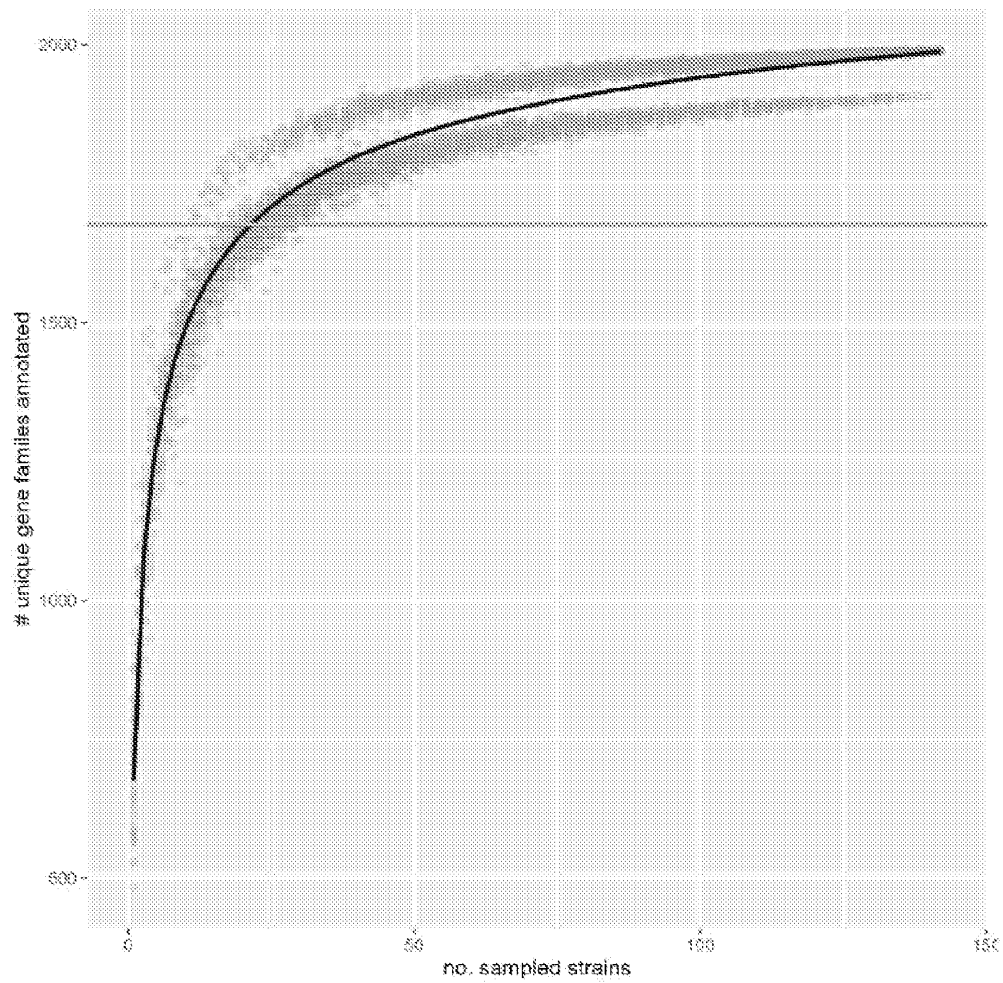
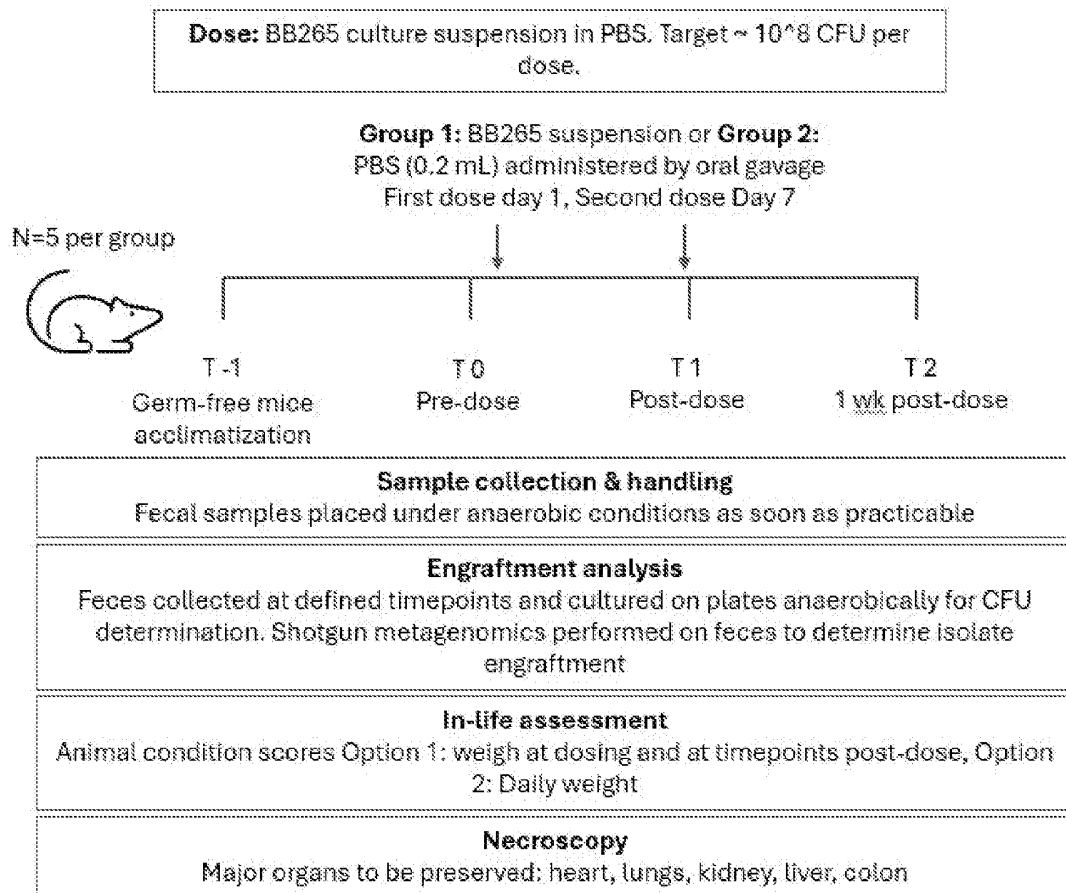


FIGURE 18



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FIGURE 19

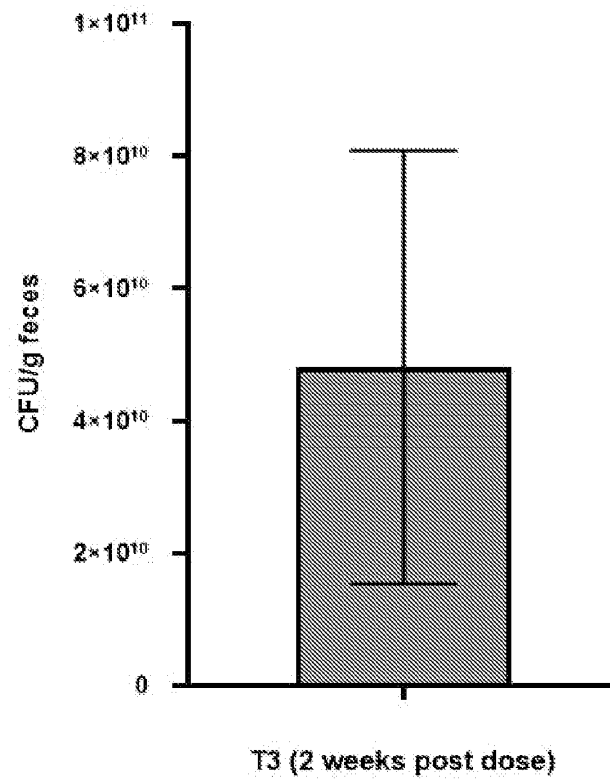


FIGURE 20A

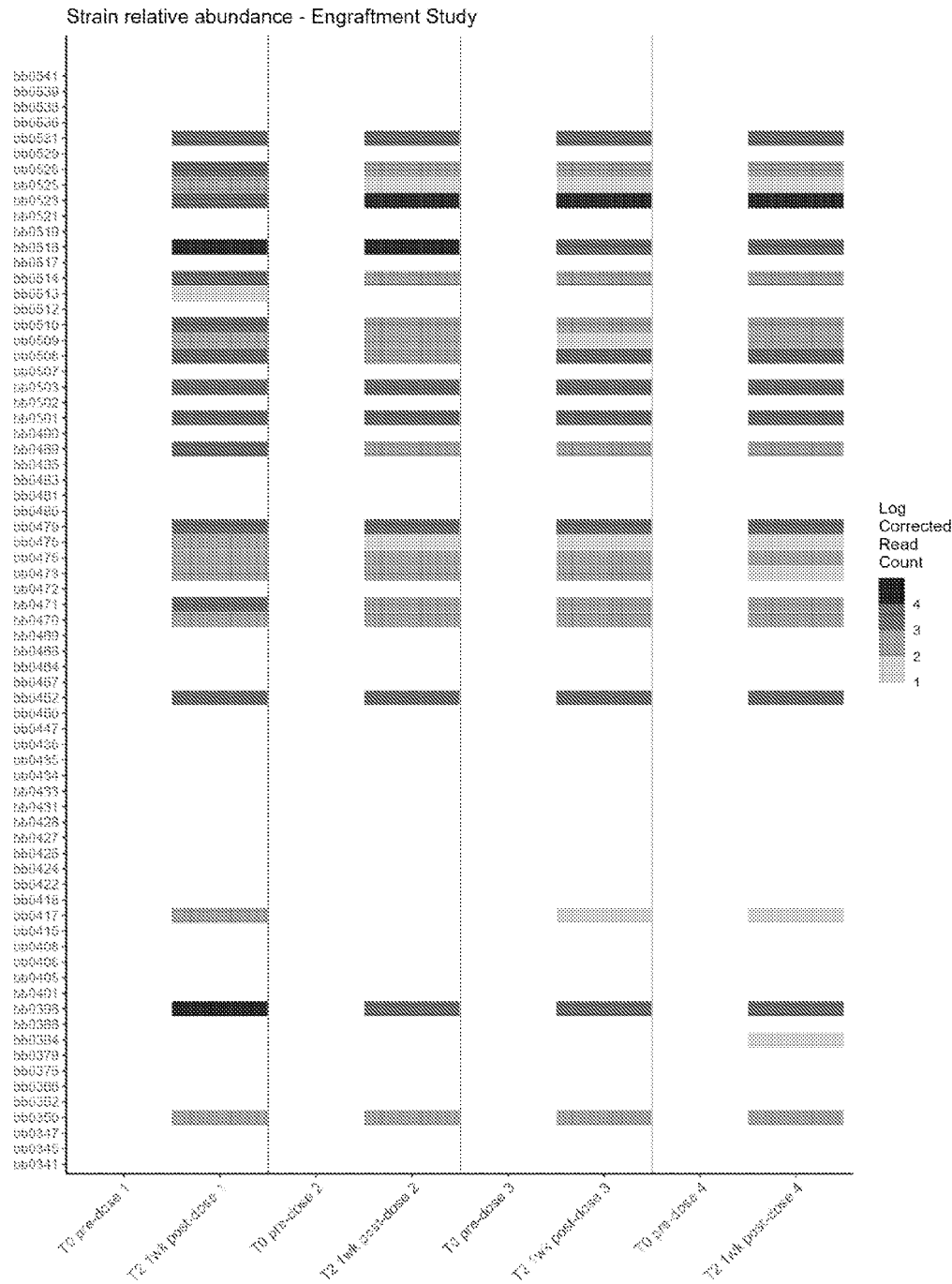


FIGURE 20B

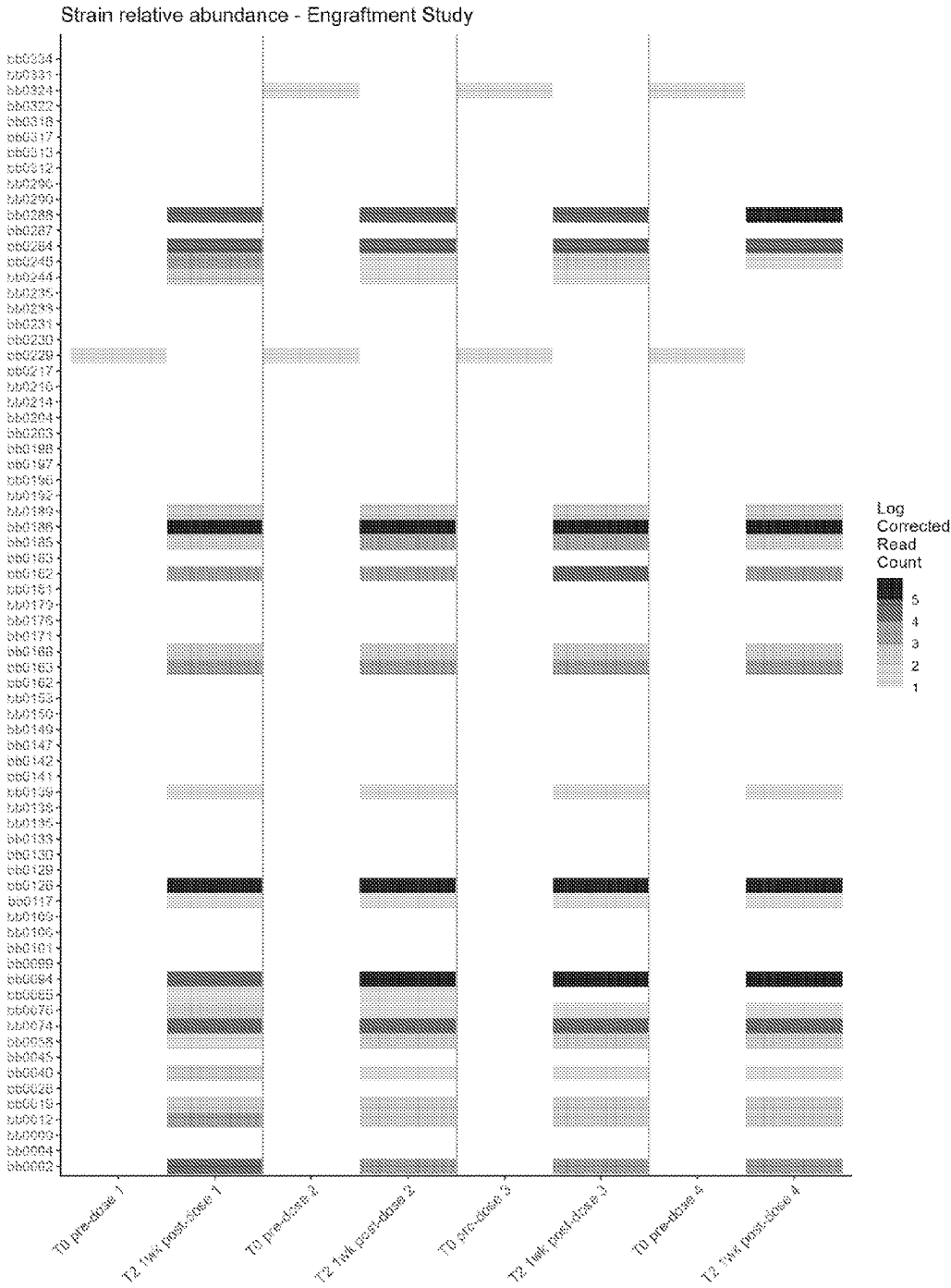


FIGURE 21

	T0 pre-dose 1	T0 pre-dose 2	T0 pre-dose 3	T0 pre-dose 4	T3 2wk post-dose 1	T3 2wk post-dose 2	T3 2wk post-dose 3	T3 2wk post-dose 4
T0 pre-dose 1								
T0 pre-dose 2	0.87							
T0 pre-dose 3	0.92	0.99						
T0 pre-dose 4	0.97	0.96	0.99					
T3 2wk post-dose 1	-0.02	0.03	-0.03	-0.03				
T3 2wk post-dose 2	-0.02	0.04	-0.02	-0.02	0.95			
T3 2wk post-dose 3	-0.02	0.04	-0.02	-0.02	0.94	1.00		
T3 2wk post-dose 4	-0.02	0.04	-0.02	-0.02	0.91	0.99	0.93	

FIGURE 22

Isolate ID	Sequence type	Database	Species	Genus	Family	Order	Class	Phylum	Species NCBI taxID	Genus NCBI taxID	Family NCBI taxID	Order NCBI taxID	Class NCBI taxID	Phylum NCBI taxID
bb0541	WGS	GTDB release 220	Lachnospira baculum sp000296385	Lachnospira baculum	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	N/A	1164882	186803	3035636	186801	1239
bb0539	WGS	GTDB release 220	Phocaeicola coprocola	Phocaeicola	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	310298	969655	815	171549	200643	978
bb0538	WGS	GTDB release 220	Lachnospira saccharolytica	Lachnospira	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	84030	2719331	186803	3035636	186801	1239
bb0531	WGS	GTDB release 220	Longicatena cactinarum	Longicatena	Erysipelotrichaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	1796635	1916536	128827	526525	526524	1239
bb0529	WGS	GTDB release 220	Barnesiella intestinalis	Barnesiella	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	487174	397664	2005319	171549	200643	978
bb0526	WGS	GTDB release 220	Thomascarella ramosa	Thomascarella	Coprobahtaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	2810280	526525	526525	526525	526524	1239
bb0525	WGS	GTDB release 220	Thomascarella ramosa	Thomascarella	Coprobahtaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	1547	3025755	2810280	526525	526524	1239
bb0523	WGS	GTDB release 220	Aerostipes hominis	Aerostipes	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	186803	3035636	186801	1239		
bb0521	WGS	GTDB release 220	Clostridium sp.	Clostridium	Clostridiaceae	Clostridiales	Clostridia	Bacillota	1506	1485	31979	186802	186801	1239
bb0518	WGS	GTDB release 220	Megamonas uniformis	Megamonas	Selenomonadaceae	Selenomonadales	Negativibacteres	Bacillota	437887	158346	1843401	908923	908922	1239
bb0514	WGS	GTDB release 220	Lactococcus lactis	Lactococcus	Streptococcaceae	Lactobacillales	Bacilli	Bacillota	3940789	1357	1300	186825	91061	1239
bb0513	WGS	GTDB release 220	Lactococcus lactis	Lactococcus	Streptococcaceae	Lactobacillales	Bacilli	Bacillota	1358	1357	1300	186825	91061	1239
bb0512	WGS	GTDB release 220	Bacillus A hominisepticus	Bacillus	Bacillaceae	Bacillales	Bacilli	Bacillota	658666	1386	188417	1385	91061	1239
bb0510	WGS	GTDB release 220	Bifidobacterium pseudocatenulatum	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	28026	1678	31953	85004	1760	201174
bb0509	WGS	GTDB release 220	Bifidobacterium adolescentis	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	1800	1678	31953	85004	1760	201174
bb0508	WGS	GTDB release 220	Bifidobacterium adolescentis	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	1800	1678	31953	85004	1760	201174
bb0507	WGS	GTDB release 220	Porphyromonas asaccharolytica	Porphyromonas	Porphyromonadaceae	Bacteroidales	Bacteroidia	Bacteroidota	20123	836	171531	171549	200643	978
bb0503	WGS	GTDB release 220	Anaerobutyrum hallii	Anaerobutyrum	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	38488	2589397	186803	3035636	186801	1239
bb0502	WGS	GTDB release 220	Anaerostipes caecae	Anaerostipes	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	105841	207244	186803	3035636	186801	1239
bb0490	WGS	GTDB release 220	Eubacterium callanderi	Eubacterium	Eubacteriaceae	Eubacteriales	Clostridia	Bacillota	53442	1730	186806	186802	186801	1239
bb0489	WGS	GTDB release 220	Collinsella bouchesdunensis	Collinsella	Coniobacteriaceae	Coniobacteriales	Coniobacteriia	Bacillota	1807854	102108	84107	84989	84988	201174
bb0483	WGS	GTDB release 220	Agaohacter rectalis	Eubacterium	Eubacteriaceae	Eubacteriales	Clostridia	Bacillota	39491	1730	186806	186802	186801	1239
bb0481	WGS	GTDB release 220	Enorma massiliensis	Enorma	Coniobacteriaceae	Coniobacteriales	Clostridia	Bacillota	1472761	1472762	84107	84989	84988	201174
bb0480	WGS	GTDB release 220	Anaerostipes sp01304095	Anaerostipes	Anaerostipaceae	Lachnospirales	Clostridia	Bacillota	2030240	3118652	3035636	186801	1239	
bb0479	WGS	GTDB release 220	Coprobahtia cateniformis	Coprobahtia	Coprobahtaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	100884	100883	2810280	526525	526524	1239
bb0476	WGS	GTDB release 220	Bifidobacterium adolescentis	Bifidobacterium	Bifidobacteriaceae	Bifidobacteriales	Actinomycetes	Actinomycetota	1800	1678	31953	85004	1760	201174
bb0475	WGS	GTDB release 220	Anaerostipes stercoriphilum A	Anaerostipes	Eubacteriaceae	Eubacteriales	Clostridia	Bacillota	264895	186806	186802	186801	1239	
bb0473	WGS	GTDB release 220	Megamonas uniformis	Megamonas	Selenomonadaceae	Selenomonadales	Negativibacteres	Bacillota	437887	158346	1843401	908923	908922	1239
bb0472	WGS	GTDB release 220	UGA1394 sp0006845	N/A	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	N/A	216572	186802	186801	1239	
bb0471	WGS	GTDB release 220	Anaerostipes rubriantalis	Anaerostipes	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	1720260	244227	216572	186802	186801	1239
bb0470	WGS	GTDB release 220	Lucicola	Lucicola	Christensenellaceae	Christensenellales	Clostridia	Bacillota	2763654	284144	980719	3032768	186801	1239
bb0468	WGS	GTDB release 220	Finhweis sp00113985	Candidatus Finhweis	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	N/A	2940632	216572	186802	186801	1239
bb0464	WGS	GTDB release 220	Agaohacterium sp002441705	Agaohacterium	Butyricaceae	Eubacteriales	Clostridia	Bacillota	N/A	2048137	3085642	186802	186801	1239
bb0452	WGS	GTDB release 220	Paraclostridium dentum	Paraclostridium	Peptostreptococcaceae	Peptostreptococcales	Clostridia	Bacillota	2682435	1948822	186804	3032720	186801	1239
bb0450	WGS	GTDB release 220	Clostridium parvifurcicum	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacillota	29363	1485	31979	186802	186801	1239
bb0447	WGS	GTDB release 220	Merdibacter meridgalium	Merdibacter	Erysipelotrichaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	2838693	1933200	128827	526525	526524	1239
bb0445	WGS	GTDB release 220	Blautia A wolekeae	Blautia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	418240	579311	186803	3035636	186801	1239
bb0434	WGS	GTDB release 220	Anaerostipes coliformis	Anaerostipes	Oscillospiraceae	Eubacteriales	Clostridia	Bacillota	158435	244227	216572	186802	186801	1239
bb0433	WGS	GTDB release 220	Lactococcus lactis	Lactococcus	Streptococcaceae	Lactobacillales	Bacilli	Bacillota	1358	1357	1300	186825	91061	1239
bb0431	WGS	GTDB release 220	Alkales A rumii	Alkales	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	1470347	230759	171550	171549	200643	978
bb0428	WGS	GTDB release 220	Dorea A longicatena B	Dorea	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	88431	189330	186803	3035636	186801	1239
bb0427	WGS	GTDB release 220	Thomascarella spiridionis	Thomascarella	Coprobahtaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	283748	3025755	2810280	526525	526524	1239
bb0425	WGS	GTDB release 220	Selimonas intestinalis	Selimonas	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	1769710	186803	3035636	186801	1239	
bb0422	WGS	GTDB release 220	Eubacterium G ventriosum	Eubacterium	Eubacteriaceae	Eubacteriales	Clostridia	Bacillota	35496	1730	186806	186802	186801	1239
bb0418	WGS	GTDB release 220	Streptococcus salivarius	Streptococcus	Streptococcaceae	Lactobacillales	Bacilli	Bacillota	1304	1301	1300	186825	91061	1239
bb0417	WGS	GTDB release 220	Streptococcus infantus	Streptococcus	Streptococcaceae	Lactobacillales	Bacilli	Bacillota	102684	1301	1300	186825	91061	1239
bb0408	WGS	GTDB release 220	Ligilactobacillus ruminis	Ligilactobacillus	Lactobacillaceae	Lactobacillales	Bacilli	Bacillota	1823	2767887	39958	186825	91061	1239
bb0406	WGS	GTDB release 220	Masslimicrobia merckgalium	Masslimicrobia	Erysipelotrichaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	N/A	1924110	128827	526525	526524	1239
bb0401	WGS	GTDB release 220	Masslimicrobia merckgalium	Masslimicrobia	Erysipelotrichaceae	Erysipelotrichales	Erysipelotrichia	Bacillota	N/A	1924110	128827	526525	526524	1239
bb0398	WGS	GTDB release 220	Roseburia intestinalis	Roseburia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	166486	841	186803	3035636	186801	1239
bb0388	WGS	GTDB release 220	Parabacteroides johnsonii	Parabacteroides	Tannerellaceae	Bacteroidales	Bacteroidia	Bacteroidota	387681	379388	2005525	171549	200643	978
bb0384	WGS	GTDB release 220	Parabacteroides goldsteinii	Parabacteroides	Tannerellaceae	Bacteroidales	Bacteroidia	Bacteroidota	328812	379388	2005525	171549	200643	978

FIGURE 22 (CONTINUED)

b00379	WGS	GTDB release 220	Clostridium AP seridons	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacillota	29347	1485	31979	188802	188801	1239
b00376	WGS	GTDB release 220	Butyronomas fecalis	Butyronomas	Oxobacteraceae	Bacteroidales	Bacteroidia	Bacteroidota	185231	171549	200643	976		
b00386	WGS	GTDB release 220	Akkermansia muciniphila	Akkermansia	Akkermansiaceae	Verrucomicrobiales	Verrucomicrobia		239535	239534	1647868	46461	203494	74201
b00352	WGS	GTDB release 220	Blautia A massiliensis	Blautia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	1737424	572511	186803	3085636	186801	1239
b00347	WGS	GTDB release 220	Alistipes A indistinctus	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	239759	171550	171549	200643	976	
b00341	WGS	GTDB release 220	Alistipes dispar	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	2588119	239759	171550	171549	200643	976
b00334	WGS	GTDB release 220	Butyrivibrio fibrisolvens	Butyrivibrio	Oxobacteriaceae	Bacteroidales	Bacteroidia	Bacteroidota	574697	1853231	171549	200643	976	
b00331	WGS	GTDB release 220	Lawsonella bacter	Lawsonella	Oxobacteriaceae	Eubacteriales	Clostridia	Bacillota	N/A	216572	166602	166601	1239	
b00322	WGS	GTDB release 220	Bacteroides fragilis	Bacteroides	Lachnospiraceae	Bacteroidales	Bacteroidia	Bacteroidota	33038	815	171549	200643	976	
b00318	WGS	GTDB release 220	Gemmingeria formicilis	Gemmingeria	N/A	Eubacteriales	Clostridia	Bacillota	745368	204475	186803	166601	1239	
b00313	WGS	GTDB release 220	Anaerostipes hadrus	Anaerostipes	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	697956	207244	186803	3085636	186801	1239
b00312	WGS	GTDB release 220	Lachnospira sp002451515	Lachnospira	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	N/A	20050	186803	3085636	186801	1239
b00296	WGS	GTDB release 220	Bacteroides salivarius	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	291644	815	171549	200643	976	
b00290	WGS	GTDB release 220	Exibacter biformis	Exibacter	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	N/A	1918452	186803	3085636	186801	1239
b00288	WGS	GTDB release 220	Hungateella effluvi	Hungateella	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	3398246	1548459	186803	3085636	186801	1239
b00287	WGS	GTDB release 220	Alistipes stahli	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	328814	239759	171550	171549	200643	976
b00284	WGS	GTDB release 220	Bacteroides uniformis	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	820	815	171549	200643	976	
b00244	WGS	GTDB release 220	Clostridium butyricum	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacillota	1492	1485	31979	188802	188801	1239
b00244	WGS	GTDB release 220	Clostridium butyricum	Clostridium	Clostridiaceae	Eubacteriales	Clostridia	Bacillota	1492	1485	31979	188802	188801	1239
b00235	WGS	GTDB release 220	Ruminococcus B gnavus	Ruminococcus	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	33038	2310020	186803	3085636	186801	1239
b00233	WGS	GTDB release 220	Prevotella copri B	Prevotella	Proteobacteriaceae	Bacteroidales	Bacteroidia	Bacteroidota	155179	2974251	171552	171549	200643	976
b00231	WGS	GTDB release 220	Bacteroides intestinalis	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	329854	815	171549	200643	976	
b00230	WGS	GTDB release 220	Phocaeicola coprophilus	Phocaeicola	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	357090	909655	815	171549	200643	976
b00229	WGS	GTDB release 220	Alistipes onderdonkii	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	328813	239759	171550	171549	200643	976
b00217	WGS	GTDB release 220	Bacteroides stercoris	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	49506	815	171549	200643	976	
b00216	WGS	GTDB release 220	Ruminococcus E bromii B	Ruminococcus	Oxobacteriaceae	Eubacteriales	Clostridia	Bacillota	4518	1263	216572	186802	186801	1239
b00214	WGS	GTDB release 220	Ruminococcus D biculans	Ruminococcus	Oxobacteriaceae	Eubacteriales	Clostridia	Bacillota	1160721	1263	216572	186802	186801	1239
b00204	WGS	GTDB release 220	Solirubrum mannosiolyticum	Solirubrum	Oxobacteriaceae	Eubacteriales	Clostridia	Bacillota	2700022	2943531	246572	186802	186801	1239
b00203	WGS	GTDB release 220	Blautia stercoris	Blautia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	871864	572511	186803	3085636	186801	1239
b00197	WGS	GTDB release 220	Eubacterium limosum	Eubacterium	Eubacteriaceae	Eubacteriales	Clostridia	Bacillota	1736	1730	186806	166602	166601	1239
b00196	WGS	GTDB release 220	Alistipes fragilis	Alistipes	Rikenellaceae	Bacteroidales	Bacteroidia	Bacteroidota	171856	239759	171550	171549	200643	976
b00182	WGS	GTDB release 220	Bacteroides sp000452405	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	N/A	815	171549	200643	976	
b00189	WGS	GTDB release 220	Bacteroides eggerthii	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	28111	815	171549	200643	976	
b00186	WGS	GTDB release 220	Bacteroides xylanolyticus	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	371601	815	171549	200643	976	
b00185	WGS	GTDB release 220	Bacteroides thetaiotaomicron	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	818	815	171549	200643	976	
b00183	WGS	GTDB release 220	Rifrobacterium bifidum	Rifrobacterium	Rifrobacteriaceae	Rifrobacteriales	Actinomycetes	Actinomycetota	1681	1678	31983	85004	1760	201174
b00181	WGS	GTDB release 220	Coprotherobacter secundus	Coprotherobacter	Barnesiellaceae	Bacteroidales	Bacteroidia	Bacteroidota	1501392	1348011	2005519	171549	200643	976
b00179	WGS	GTDB release 220	Bacteroides intestinalis	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	329854	815	171549	200643	976	
b00171	WGS	GTDB release 220	Bacteroides uniformis	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	820	815	171549	200643	976	
b00168	WGS	GTDB release 220	Blautia A massiliensis	Blautia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	1737424	572511	186803	3085636	186801	1239
b00163	WGS	GTDB release 220	Bacteroides thetaiotaomicron	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	818	815	171549	200643	976	
b00162	WGS	GTDB release 220	Rifrobacterium pseudocatalanum	Rifrobacterium	Rifrobacteriaceae	Rifrobacteriales	Actinomycetes	Actinomycetota	28926	1678	31983	85004	1760	201174
b00153	WGS	GTDB release 220	Mediterraneanibacter torques	Mediterraneanibacter	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	33039	2310020	186803	3085636	186801	1239
b00150	WGS	GTDB release 220	Blautia A massiliensis	Blautia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	1737424	572511	186803	3085636	186801	1239
b00149	WGS	GTDB release 220	Parabacteroides distans	Parabacteroides	Lamnellaceae	Bacteroidales	Bacteroidia	Bacteroidota	823	375288	2005525	171549	200643	976
b00147	WGS	GTDB release 220	Blautia A massiliensis	Blautia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	410072	33042	186803	3085636	186801	1239
b00142	WGS	GTDB release 220	Parabacteroides merdae	Parabacteroides	Lamnellaceae	Bacteroidales	Bacteroidia	Bacteroidota	45033	375288	2005525	171549	200643	976
b00141	WGS	GTDB release 220	Roseburia hominis	Roseburia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	331301	841	186803	3085636	186801	1239
b00139	WGS	GTDB release 220	Enterocloster adenineis	Enterocloster	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	358742	2719313	186803	3085636	186801	1239
b00138	WGS	GTDB release 220	Phocaeicola vulgatus	Phocaeicola	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	821	909655	815	171549	200643	976
b00135	WGS	GTDB release 220	Ruminococcus D biculans	Ruminococcus	Oxobacteriaceae	Eubacteriales	Clostridia	Bacillota	1160721	1263	216572	186802	186801	1239
b00133	WGS	GTDB release 220	Ruminococcus E bromii B	Ruminococcus	Oxobacteriaceae	Eubacteriales	Clostridia	Bacillota	49518	1263	216572	186802	186801	1239
b00130	WGS	GTDB release 220	Oribacterium spirochaeticus	Oribacterium	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	116085	33042	186803	3085636	186801	1239
b00129	WGS	GTDB release 220	Bacteroides nordii	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	26118	283168	1853231	171549	200643	976
b00126	WGS	GTDB release 220	Phocaeicola dorei	Phocaeicola	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	357276	909655	815	171549	200643	976
b00117	WGS	GTDB release 220	Bacteroides ovatus	Bacteroides	Bacteroidaceae	Bacteroidales	Bacteroidia	Bacteroidota	25116	815	171549	200643	976	
b00109	WGS	GTDB release 220	Roseburia inulinivorans	Roseburia	Lachnospiraceae	Lachnospirales	Clostridia	Bacillota	358087	841	186803	3085636	186801	1239
b00106	WGS	GTDB release 220	Faecalibacterium duncaniae	Faecalibacterium	Oxobacteriaceae	Eubacteriales	Clostridia	Bacillota	411483	216572	186802	186801	1239	

[illegible]

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FIGURE 23A

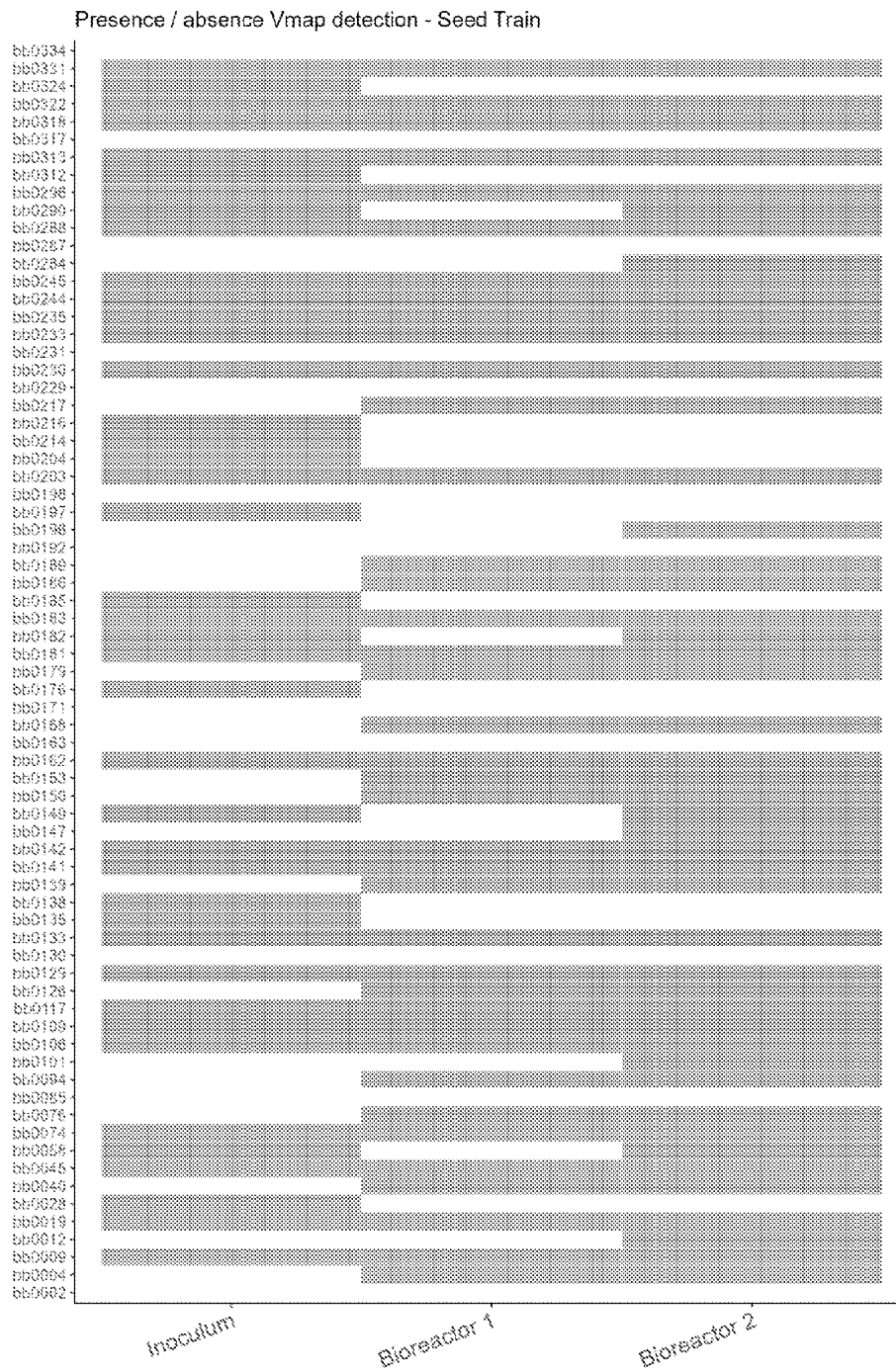


FIGURE 23B

