



# Human Anaerobes for Microbiome Research

The human gastrointestinal tract constitutes a complex ecosystem comprising hundreds of bacterial species. Of these, obligate anaerobes predominate, making up 99% of the bacterial species residing in the large intestine<sup>1</sup>. Though abundant, in-depth knowledge on the functional interactions between obligate anaerobes and their habitat within the human gastrointestinal tract is complicated by their fastidious nature.

To help support microbiome research, ATCC offers a growing list of anaerobic bacteria isolated from humans that can be used in a variety of studies, including:

- *In vitro* modeling of anaerobic intestinal flora
- Next-generation sequencing
- Assay development
- Pathogen-host interaction studies


In addition to fully authenticated and characterized strains, ATCC provides historical information, growth media formulations, atmospheric growth conditions, and expert technical assistance for each strain provided in the collection. Browse our complete collection of anaerobic bacterial strains online at [www.atcc.org](http://www.atcc.org).

ATCC No.	Organism	Strain Designation	Type Strain	Isolation
51276	<i>Johnsonella ignava</i>	VPI D94B-12	Yes	Oral cavity - human
51261	<i>Prevotella enoeca</i>	VPI D194A-25A	Yes	Oral cavity - human
51259	<i>Prevotella tanneriae</i>	VPI N14B-15	Yes	Oral cavity - human
43532	<i>Selenomonas infelix</i>	VPI D75B-30	Yes	Human subgingival region
43541	<i>Selenomonas noxia</i>	VPI D9B-5	Yes	Human subgingival region
33779	<i>Prevotella veroralis</i>	VPI D22A-7	Yes	Human oral cavity
33285	<i>Prevotella zoogloformans</i>	VPI D28K-1	Yes	Human oral cavity
17744	<i>Veillonella atypica</i>	KON	Yes	Human mouth
17748	<i>Veillonella dispar</i>	ERN	Yes	Human mouth
17745	<i>Veillonella parvula</i>	259	Yes	Human mouth
15930	<i>Prevotella loescheii</i>	8B	Yes	Gingival crevice
35309	<i>Prevotella buccae</i>	NCDO 2353	Yes	Dental plaque
35310	<i>Prevotella buccalis</i>	NCDO 2354	Yes	Dental plaque
35308	<i>Prevotella denticola</i>	NCDO 2352	Yes	Dental plaque
27534	<i>Bifidobacterium dentium</i>	B764	Yes	Dental caries
14501	<i>Clostridium innocuum</i>	B-3	Yes	Appendix abscess
25285	<i>Bacteroides fragilis</i>	VPI 2553	Yes	Appendix abscess
15700	<i>Bifidobacterium breve</i>	S1	Yes	Intestine of infant
15697	<i>Bifidobacterium longum</i> subsp. <i>infantis</i>	S12	Yes	Intestine of infant
15703	<i>Bifidobacterium adolescentis</i>	E194a	Yes	Intestine of adult
15707	<i>Bifidobacterium longum</i> subsp. <i>longum</i>	E194b	Yes	Intestine of adult
10790	<i>Veillonella parvula</i>	Te 3	Yes	Intestinal tract
29521	<i>Bifidobacterium bifidum</i>	VPI 11241	Yes	Infant feces
BAA-1564	<i>Blautia wexlerae</i>	WAL 14507	Yes	Human feces
BAA-474	<i>Cetobacterium somerae</i>	WAL 14325	Yes	Human feces


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BAA-613	<i>Clostridium bolteae</i>	WAL 16351	Yes	Human feces
29800	<i>Alistipes putredinis</i>	VPI 3293	Yes	Human feces
43185	<i>Bacteroides caccae</i>	VPI 3452A	Yes	Human feces
27754	<i>Bacteroides eggerthii</i>	VPI T5-42B-1	Yes	Human feces
43243	<i>Bacteroides pectinophilus</i>	N3	Yes	Human feces
43183	<i>Bacteroides stercoris</i>	VPI B5-21	Yes	Human feces
29148	<i>Bacteroides thetaiotaomicron</i>	VPI 5482	Yes	Human feces
27535	<i>Bifidobacterium angulatum</i>	B677	Yes	Human feces
27919	<i>Bifidobacterium pseudocatenulatum</i>	B1279	Yes	Human feces
27752	<i>Blautia hansenii</i>	VPI C7-24	Yes	Human feces
27791	<i>Clostridium celatum</i>	VPI 8759-1	Yes	Human feces
29065	<i>Clostridium leptum</i>	VPI T7-24-2	Yes	Human feces
43829	<i>Clostridium methylpentosum</i>	R2	Yes	Human feces
27757	<i>Clostridium nexile</i>	VPI C48-37	Yes	Human feces
35704	<i>Clostridium scindens</i>	VPI 13733	Yes	Human feces
29900	<i>Clostridium spiroforme</i>	NCTC 11211	Yes	Human feces
25986	<i>Collinsella aerofaciens</i>	VPI 1003	Yes	Human feces
27755	<i>Dorea formicigenerans</i>	VPI C8-13	Yes	Human feces
27806	<i>Eubacterium bifforme</i>	VPI C17-5	Yes	Human feces
27804	<i>Eubacterium cylindroides</i>	VPI 3651	Yes	Human feces
27805	<i>Eubacterium cylindroides</i>	VPI 3696	Yes	Human feces
29143	<i>Eubacterium dolichum</i>	VPI C9-20	Yes	Human feces
27750	<i>Eubacterium eligens</i>	VPI C15-48	Yes	Human feces
29173	<i>Eubacterium hadrum</i>	B2-52	Yes	Human feces
27751	<i>Eubacterium hallii</i>	VPI B4-27	Yes	Human feces
29099	<i>Eubacterium ramulus</i>	VPI C6-27	Yes	Human feces
29066	<i>Eubacterium siraeum</i>	VPI T9-50-2	Yes	Human feces
27768	<i>Faecalibacterium prausnitzii</i>	VPI C13-51	Yes	Human feces
49531	<i>Flavonifractor plautii</i>	265	Yes	Human feces
27723	<i>Mitsuokella multacida</i>	A 405-1	Yes	Human feces
43184	<i>Parabacteroides merdae</i>	VPI T4-1	Yes	Human feces
29799	<i>Pseudoflavonifractor capillosus</i>	VPI R2-29-1	Yes	Human feces
27255	<i>Ruminococcus bromii</i>	VPI 6883	Yes	Human feces
29149	<i>Ruminococcus gnavus</i>	VPI C7-9	Yes	Human feces
29176	<i>Ruminococcus lactaris</i>	VPI X6-29	Yes	Human feces
29174	<i>Ruminococcus obeum</i>	VPI B3-21	Yes	Human feces
27756	<i>Ruminococcus torques</i>	VPI B2-51	Yes	Human feces
27560	<i>Eubacterium ventriosum</i>	VPI 1013B	Yes	Human feces
BAA-548	<i>Victivallis vadensis</i>	Cello	Yes	Human feces
BAA-997	<i>Bacteroides salyersiae</i>	WAL 10018	Yes	Clinical specimen - human
BAA-689	<i>Fusobacterium canifelinum</i>	RMA 1036	Yes	Clinical specimen - human
BAA-601	<i>Peptoniphilus hareii</i>	DSM 10020	Yes	Clinical specimen - human

## References

1. Maier E, Anderson RC, Roy NC. Understanding How Commensal Obligate Anaerobic Bacteria Regulate Immune Functions in the Large Intestine. *Nutrients* 7(1): 45-73, 2015.

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