

Table S1. Glycoside hydrolase families in the *R. bromii* genome by comparison with three other amylolytic species and two non-amylolytic *Ruminococcus* species from the human colon.

Glycoside Hydrolase Family	1	2	3	5	8	9	10	11	13	16	18	20	23	25	26	27	28	29	30	31	32	33	35	36	38	42	43	44	48	51	53	57	59	66	
<i>Ruminococcus bromii</i> L2-63			1						15				2	1						1															
" <i>Ruminococcus bicirculans</i> " 80/3		4	3	11					6	1			2	6	3					1	1			2			2	1						1	
<i>Ruminococcus champanellensis</i> 18P13	1	1	1	9	1	7	2	1	4	1				4	3	1				2				1		1	5	1	1				1		
<i>Eubacterium rectale</i> A1-86	1	3	4	1	1				13		1		2	1							3	2			1		2	2			1	2			
<i>Bacteroides thetaiotaomicron</i> VPI5482		3	2	10					8	4	12	14	3	1		5	9	9	3	6	4	2	3	4	2	1	33			4	1	1		1	
<i>Bifidobacterium adolescentis</i> ATCC15703	2	3	6	2	1				13				3	1	1	1				1	1	2		1	2	1	4	7			2				

Glycoside Hydrolase Family	67	73	74	76	77	78	84	88	89	92	93	94	95	97	98	99	105	106	109	110	112	113	115	120	123	125	127	130	NC				Total
<i>Ruminococcus bromii</i> L2-63					1																												21
" <i>Ruminococcus bicirculans</i> " 80/3		1	2		1							2										1							2				55
<i>Ruminococcus champanellensis</i> 18P13			2								2	1		1																			54
<i>Eubacterium rectale</i> A1-86		2			1							3										1											47
<i>Bacteroides thetaiotaomicron</i> VPI5482	1	1		10	1	6	1	4	3	24	1		5	10		1	7	3	2	2			2		1	3	3	4	2				269
<i>Bifidobacterium adolescentis</i> ATCC15703					2																			1			1						58