

S4 Table. Activity of cell-bound and freely-released enzymes, and total enzymatic activity of strains of genus *Luteibacter*. Data represent means and standard deviations of the total activity of three replicates. Abbreviations of enzymes: **bG**: β -glucosidase; **Pho**: acid phosphatase; **Lip**: lipase; **bM**: β -mannosidase; **aA**: α -arabinosidase; **bX**: β -xylosidase; **bGal**: β -galactosidase; **CBH**: cellobiohydrolase; **aG**: α -glucosidase; **ChTN**: chitinase; **aGal**: α -galactosidase; **bGlu**: β -glucuronidase. A ‘-’ indicates values below detection limit.

Strain:	L1			Strain:	L3			Strain:	L5		
	Total activity (nM min ⁻¹ mL ⁻¹)	Bound (%)	Free (%)		Total activity (nM min ⁻¹ mL ⁻¹)	Bound (%)	Free (%)		Total activity (nM min ⁻¹ mL ⁻¹)	Bound (%)	Free (%)
bG	3905 ± 88	100	-	bG	3832 ± 109	100	-	bG	4030 ± 147	100	-
Pho	5208 ± 141	97	3	Pho	5013 ± 168	97	3	Pho	5202 ± 201	98	2
Lip	7823 ± 354	64	36	Lip	8021 ± 59	60	40	Lip	8312 ± 53	61	39
bM	675 ± 113	100	-	bM	848 ± 69	100	-	bM	825 ± 37	100	-
aA	16 ± 1	100	-	aA	28 ± 1	100	-	aA	31 ± 1	100	-
bX	82 ± 5	100	-	bX	105 ± 7	100	-	bX	104 ± 9	100	-
bGal	910 ± 23	100	-	bGal	1174 ± 27	100	-	bGal	1286 ± 50	100	-
CBH	98 ± 5	100	-	CBH	131 ± 4	100	-	CBH	146 ± 8	100	-
aG	377 ± 51	100	-	aG	600 ± 82	100	-	aG	977 ± 128	100	-
ChTN	-	-	-	ChTN	-	-	-	ChTN	11 ± 1	100	-
aGal	421 ± 6	100	-	aGal	564 ± 4	100	-	aGal	634 ± 5	100	-
bGlu	-	-	-	bGlu	-	-	-	bGlu	-	-	-
	Enzymes produced (%)		83.3	Enzymes produced (%)		83.3		Enzymes produced (%)		91.7	
Strain:	L6			Strain:	L7			Strain:	L8		
	Total activity (nM min ⁻¹ mL ⁻¹)	Bound (%)	Free (%)		Total activity (nM min ⁻¹ mL ⁻¹)	Bound (%)	Free (%)		Total activity (nM min ⁻¹ mL ⁻¹)	Bound (%)	Free (%)
bG	4123 ± 293	100	-	bG	4039 ± 214	100	-	bG	4042 ± 125	100	-
Pho	5030 ± 272	99	1	Pho	5668 ± 224	98	2	Pho	5110 ± 89	98	2
Lip	8794 ± 201	61	39	Lip	10003 ± 61	54	46	Lip	8643 ± 173	64	36
bM	943 ± 137	100	-	bM	880 ± 72	100	-	bM	905 ± 56	100	-
aA	29 ± 1	100	-	aA	32 ± 1	100	-	aA	27 ± 2	100	-
bX	110 ± 12	100	-	bX	107 ± 10	100	-	bX	115 ± 10	100	-
bGal	1274 ± 56	100	-	bGal	1349 ± 89	100	-	bGal	1239 ± 53	100	-
CBH	146 ± 10	100	-	CBH	157 ± 13	100	-	CBH	145 ± 8	100	-
aG	875 ± 123	100	-	aG	965 ± 113	100	-	aG	619 ± 49	100	-
ChTN	-	-	-	ChTN	11 ± 1	100	-	ChTN	-	-	-
aGal	639 ± 8	100	-	aGal	619 ± 14	100	-	aGal	610 ± 1	100	-
bGlu	-	-	-	bGlu	-	-	-	bGlu	-	-	-
	Enzymes produced (%)		83.3	Enzymes produced (%)		91.7		Enzymes produced (%)		83.3	

Strain:	L9			Strain:	L10			Strain:	L12		
	Total activity (nM min ⁻¹ mL ⁻¹)	Bound (%)	Free (%)		Total activity (nM min ⁻¹ mL ⁻¹)	Bound (%)	Free (%)		Total activity (nM min ⁻¹ mL ⁻¹)	Bound (%)	Free (%)
bG	4397 ± 209	100	-	bG	4466 ± 158	100	-	bG	4031 ± 86	100	-
Pho	5462 ± 216	98	2	Pho	5316 ± 153	98	2	Pho	4988 ± 51	97	3
Lip	8847 ± 72	66	34	Lip	8701 ± 111	64	36	Lip	8160 ± 94	63	37
bM	951 ± 79	100	-	bM	1002 ± 102	100	-	bM	877 ± 126	100	-
aA	30 ± 1	100	-	aA	29 ± 0	100	-	aA	21 ± 1	100	-
bX	126 ± 17	100	-	bX	129 ± 16	100	-	bX	96 ± 8	100	-
bGal	1302 ± 77	100	-	bGal	1277 ± 71	100	-	bGal	986 ± 41	100	-
CBH	156 ± 14	100	-	CBH	157 ± 14	100	-	CBH	117 ± 6	100	-
aG	738 ± 146	100	-	aG	747 ± 113	100	-	aG	477 ± 88	100	-
ChTN	11 ± 3	100	-	ChTN	13 ± 1	100	-	ChTN	-	-	-
aGal	659 ± 7	100	-	aGal	671 ± 4	100	-	aGal	554 ± 4	100	-
bGlu	-	-	-	bGlu	-	-	-	bGlu	-	-	-
	Enzymes produced (%)		91.7		Enzymes produced (%)		91.7		Enzymes produced (%)		83.3
Strain:	L13			Strain:	L14			Strain:	L15		
	Total activity (nM min ⁻¹ mL ⁻¹)	Bound (%)	Free (%)		Total activity (nM min ⁻¹ mL ⁻¹)	Bound (%)	Free (%)		Total activity (nM min ⁻¹ mL ⁻¹)	Bound (%)	Free (%)
bG	4004 ± 58	100	-	bG	4743 ± 168	99	1	bG	3856 ± 38	99	1
Pho	4883 ± 17	98	2	Pho	6305 ± 165	97	3	Pho	5267 ± 89	95	5
Lip	7757 ± 235	67	33	Lip	8741 ± 45	66	34	Lip	8574 ± 159	59	41
bM	850 ± 111	100	-	bM	1238 ± 162	100	-	bM	610 ± 54	100	-
aA	22 ± 1	100	-	aA	-	-	-	aA	18 ± 2	100	-
bX	94 ± 8	100	-	bX	82 ± 7	100	-	bX	91 ± 7	100	-
bGal	955 ± 30	100	-	bGal	1329 ± 48	100	-	bGal	848 ± 14	100	-
CBH	110 ± 6	100	-	CBH	116 ± 11	100	-	CBH	96 ± 4	100	-
aG	446 ± 83	100	-	aG	611 ± 34	100	-	aG	267 ± 29	100	-
ChTN	-	-	-	ChTN	-	-	-	ChTN	-	-	-
aGal	543 ± 8	100	-	aGal	716 ± 13	100	-	aGal	409 ± 9	100	-
bGlu	-	-	-	bGlu	-	-	-	bGlu	-	-	-
	Enzymes produced (%)		83.3		Enzymes produced (%)		75		Enzymes produced (%)		83.3

Strain:	L18			Strain:	L20			Strain:	L21		
	Total activity (nM min ⁻¹ mL ⁻¹)	Bound (%)	Free (%)		Total activity (nM min ⁻¹ mL ⁻¹)	Bound (%)	Free (%)		Total activity (nM min ⁻¹ mL ⁻¹)	Bound (%)	Free (%)
bG	4141 ± 90	100	-	bG	4151 ± 88	100	-	bG	4535 ± 225	100	-
Pho	5245 ± 30	99	1	Pho	5140 ± 52	99	1	Pho	5932 ± 169	97	3
Lip	8037 ± 190	66	34	Lip	7971 ± 217	67	33	Lip	9078 ± 129	66	34
bM	798 ± 102	100	-	bM	640 ± 65	100	-	bM	991 ± 84	100	-
aA	20 ± 2	100	-	aA	19 ± 1	100	-	aA	32 ± 1	100	-
bX	98 ± 10	100	-	bX	94 ± 9	100	-	bX	121 ± 16	100	-
bGal	990 ± 40	100	-	bGal	893 ± 52	100	-	bGal	1407. ± 77	100	-
CBH	107 ± 6	100	-	CBH	103 ± 9	100	-	CBH	164 ± 9	100	-
aG	363 ± 55	100	-	aG	339 ± 73	100	-	aG	831 ± 276	100	-
ChTN	-	-	-	ChTN	10 ± 1	100	-	ChTN	-	-	-
aGal	512 ± 4	100	-	aGal	460 ± 0	100	-	aGal	687 ± 7	100	-
bGlu	-	-	-	bGlu	-	-	-	bGlu	-	-	-
	Enzymes produced (%)		83.3		Enzymes produced (%)		91.7		Enzymes produced (%)		83.3

Strain:	L22			Strain:	L50		
	Total activity (nM min ⁻¹ mL ⁻¹)	Bound (%)	Free (%)		Total activity (nM min ⁻¹ mL ⁻¹)	Bound (%)	Free (%)
bG	4032 ± 149	100	-	bG	4297 ± 184	100	-
Pho	5647 ± 81	97	3	Pho	5839 ± 91	98	2
Lip	8729 ± 174	68	32	Lip	9143 ± 68	62	38
bM	884 ± 55	100	-	bM	959 ± 49	99	1
aA	25 ± 1	100	-	aA	38 ± 0	100	-
bX	96 ± 11	100	-	bX	118 ± 7	100	-
bGal	1115 ± 55	100	-	bGal	1442 ± 49	100	-
CBH	116 ± 10	100	-	CBH	149 ± 19	100	-
aG	329 ± 78	100	-	aG	541 ± 2	100	-
ChTN	-	-	-	ChTN	11 ± 3	100	-
aGal	605 ± 2	100	-	aGal	668 ± 4	100	-
bGlu	-	-	-	bGlu	-	-	-
	Enzymes produced (%)		83.3		Enzymes produced (%)		91.7

