

**S6 Table. Activity of cell-bound and freely-released enzymes, and total enzymatic activity of strains of genus *Arthrobacter*.** Data represent means and standard deviations of the total activity of three replicates. Abbreviations of enzymes: **bG**:  $\beta$ -glucosidase; **Pho**: acid phosphatase; **Lip**: lipase; **bM**:  $\beta$ -mannosidase; **aA**:  $\alpha$ -arabinosidase; **bX**:  $\beta$ -xylosidase; **bGal**:  $\beta$ -galactosidase; **CBH**: cellobiohydrolase; **aG**:  $\alpha$ -glucosidase; **ChTN**: chitinase; **aGal**:  $\alpha$ -galactosidase; **bGlu**:  $\beta$ -glucuronidase. A ‘-’ indicates values below detection limit.

Strain:	AFG3.2			Strain:	AFG7.2			Strain:	AFG8		
	Total activity (nM min <sup>-1</sup> mL <sup>-1</sup> )	Bound (%)	Free (%)		Total activity (nM min <sup>-1</sup> mL <sup>-1</sup> )	Bound (%)	Free (%)		Total activity (nM min <sup>-1</sup> mL <sup>-1</sup> )	Bound (%)	Free (%)
<b>bG</b>	20 ± 0	-	100	<b>bG</b>	-	-	-	<b>bG</b>	-	-	-
<b>Pho</b>	20 ± 2	100	-	<b>Pho</b>	148 ± 11	100	-	<b>Pho</b>	27 ± 8	100	-
<b>Lip</b>	906 ± 37	5	95	<b>Lip</b>	503 ± 26	63	37	<b>Lip</b>	1124 ± 62	33	67
<b>bM</b>	-	-	-	<b>bM</b>	-	-	-	<b>bM</b>	-	-	-
<b>aA</b>	-	-	-	<b>aA</b>	-	-	-	<b>aA</b>	-	-	-
<b>bX</b>	-	-	-	<b>bX</b>	28 ± 2	-	100	<b>bX</b>	-	-	-
<b>bGal</b>	-	-	-	<b>bGal</b>	286 ± 8	-	100	<b>bGal</b>	96 ± 7	-	100
<b>CBH</b>	-	-	-	<b>CBH</b>	-	-	-	<b>CBH</b>	-	-	-
<b>aG</b>	-	-	-	<b>aG</b>	-	-	-	<b>aG</b>	15 ± 2	-	100
<b>ChTN</b>	-	-	-	<b>ChTN</b>	-	-	-	<b>ChTN</b>	64 ± 2	100	-
<b>aGal</b>	-	-	-	<b>aGal</b>	-	-	-	<b>aGal</b>	12 ± 1	-	100
<b>bGlu</b>	400 ± 18	-	100	<b>bGlu</b>	39 ± 9	-	100	<b>bGlu</b>	29 ± 6	-	100
	Enzymes produced (%)		33.3		Enzymes produced (%)		41.7		Enzymes produced (%)		58.3
Strain:	AFG15.2			Strain:	AFG16.1			Strain:	AFG17		
	Total activity (nM min <sup>-1</sup> mL <sup>-1</sup> )	Bound (%)	Free (%)		Total activity (nM min <sup>-1</sup> mL <sup>-1</sup> )	Bound (%)	Free (%)		Total activity (nM min <sup>-1</sup> mL <sup>-1</sup> )	Bound (%)	Free (%)
<b>bG</b>	18 ± 1	100	-	<b>bG</b>	-	-	-	<b>bG</b>	-	-	-
<b>Pho</b>	251 ± 16	100	-	<b>Pho</b>	50 ± 8	44	56	<b>Pho</b>	52 ± 5	71	29
<b>Lip</b>	1289 ± 63	95	5	<b>Lip</b>	1159 ± 60	31	69	<b>Lip</b>	535 ± 24	65	35
<b>bM</b>	-	-	-	<b>bM</b>	-	-	-	<b>bM</b>	-	-	-
<b>aA</b>	15 ± 0	100	-	<b>aA</b>	-	-	-	<b>aA</b>	-	-	-
<b>bX</b>	11 ± 1	100	-	<b>bX</b>	-	-	-	<b>bX</b>	-	-	-
<b>bGal</b>	122 ± 3	89	11	<b>bGal</b>	101 ± 7	-	100	<b>bGal</b>	63 ± 1	-	100
<b>CBH</b>	-	-	-	<b>CBH</b>	-	-	-	<b>CBH</b>	-	-	-
<b>aG</b>	-	-	-	<b>aG</b>	-	-	-	<b>aG</b>	-	-	-
<b>ChTN</b>	-	-	-	<b>ChTN</b>	54 ± 5	100	-	<b>ChTN</b>	-	-	-
<b>aGal</b>	17 ± 1	-	100	<b>aGal</b>	-	-	-	<b>aGal</b>	-	-	-
<b>bGlu</b>	-	-	-	<b>bGlu</b>	17 ± 1	-	100	<b>bGlu</b>	-	-	-
	Enzymes produced (%)		58.3		Enzymes produced (%)		41.7		Enzymes produced (%)		25

Strain:	AFG17.2			Strain:	AFG19.3			Strain:	AFG20		
	Total activity (nM min <sup>-1</sup> mL <sup>-1</sup> )	Bound (%)	Free (%)		Total activity (nM min <sup>-1</sup> mL <sup>-1</sup> )	Bound (%)	Free (%)		Total activity (nM min <sup>-1</sup> mL <sup>-1</sup> )	Bound (%)	Free (%)
bG	-	-	-	bG	-	-	-	bG	-	-	-
Pho	21 ± 6	100	-	Pho	29 ± 7	100	-	Pho	-	-	-
Lip	168 ± 33	49	51	Lip	276 ± 34	39	61	Lip	238 ± 1	46	54
bM	-	-	-	bM	-	-	-	bM	-	-	-
aA	-	-	-	aA	-	-	-	aA	-	-	-
bX	-	-	-	bX	-	-	-	bX	-	-	-
bGal	-	-	-	bGal	95 ± 3	49	51	bGal	-	-	-
CBH	-	-	-	CBH	-	-	-	CBH	-	-	-
aG	12 ± 1	-	100	aG	22 ± 2	-	100	aG	-	-	-
ChTN	-	-	-	ChTN	-	-	-	ChTN	-	-	-
aGal	-	-	-	aGal	-	-	-	aGal	-	-	-
bGlu	-	-	-	bGlu	-	-	-	bGlu	-	-	-
	Enzymes produced (%)		25		Enzymes produced (%)		33.3		Enzymes produced (%)		8.3
Strain:	AFG20.1			Strain:	AFG22			Strain:	AFG27.1		
	Total activity (nM min <sup>-1</sup> mL <sup>-1</sup> )	Bound (%)	Free (%)		Total activity (nM min <sup>-1</sup> mL <sup>-1</sup> )	Bound (%)	Free (%)		Total activity (nM min <sup>-1</sup> mL <sup>-1</sup> )	Bound (%)	Free (%)
bG	-	-	-	bG	43 ± 3	-	100	bG	-	-	-
Pho	10 ± 2	100	-	Pho	19 ± 2	100	-	Pho	38 ± 4	100	-
Lip	187 ± 32	54	46	Lip	754 ± 121	65	35	Lip	349 ± 23	38	62
bM	-	-	-	bM	-	-	-	bM	-	-	-
aA	13 ± 4	100	-	aA	-	-	-	aA	-	-	-
bX	-	-	-	bX	-	-	-	bX	-	-	-
bGal	403 ± 27	97	3	bGal	13 ± 2	-	100	bGal	235 ± 14	88	12
CBH	-	-	-	CBH	-	-	-	CBH	-	-	-
aG	-	-	-	aG	-	-	-	aG	215 ± 4	-	100
ChTN	-	-	-	ChTN	83 ± 3	85	15	ChTN	-	-	-
aGal	-	-	-	aGal	-	-	-	aGal	-	-	-
bGlu	-	-	-	bGlu	24 ± 4	-	100	bGlu	12 ± 0	-	100
	Enzymes produced (%)		33.33		Enzymes produced (%)		50		Enzymes produced (%)		41.7

