

Article

Cellulases Production by a *Trichoderma* sp. Using Food Manufacturing Wastes

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Supplementary Material: Mass Spectrometry Results

Table 1. Glucose. Replicate 1.

Protein Group	Protein ID	Accession	-10lgP	Coverage (%)	#Peptides	#Unique	Avg. Mass	Description	Genus
480	1142	B8NMR5 BGLG ASPFN	25.35	1	1	1	87701	Probable beta-glucosidase G	<i>Aspergillus</i>

Table 2. Glucose. Replicate 2.

Protein Group	Protein ID	Accession	-10lgP	Coverage (%)	#Peptides	#Unique	Avg. Mass	Description	Genus
363	163137	A1D122 BGLM_NEOFI	71.06	6	4	2	82416	Probable beta-glucosidase M	<i>Neosartorya</i>
349	163155	A5ABF5 BGLM ASPNC	68.3	2	2	1	82116	Probable beta-glucosidase M	<i>Aspergillus</i>
378	1146	Q0C7L4 BGLM ASPTN	64.69	4	3	1	84156	Probable beta-glucosidase M	<i>Aspergillus</i>
421	666	Q4WJJ3 BGLA ASPFU	60.46	2	2	1	94753	Probable beta-glucosidase A	<i>Neosartorya</i>
421	667	B0XPE1 BGLA ASPFC	60.46	2	2	1	94754	Probable beta-glucosidase A	<i>Neosartorya</i>
737	104518	D4AN50 BGLA ARTBC	57.28	1	1	1	88839	Probable beta-glucosidase ARB_05654	<i>Arthroderma</i>
467	532	P48825 BGL1 ASPAC	52.01	2	2	1	93053	Beta-glucosidase 1	<i>Aspergillus</i>

Table 3. OMSW. Replicate 1.

Protein Group	Protein ID	Accession	-10lgP	Coverage (%)	#Peptides	#Unique	Avg. Mass	Description	Genus
12	64	Q9P8P3 GUX1_TRIHA	229.37	26	15	8	53216	Exoglucanase 1	<i>Trichoderma</i>
11	90	P62695 GUX1_TRIKO	225.72	17	13	0	54073	Exoglucanase 1	<i>Trichoderma</i>
104	360	Q12714 GUN1_TRILO	215.28	10	10	10	48337	Endoglucanase EG-1	<i>Trichoderma</i>
81	220	P13860 GUX1_PHACH	123.35	5	4	0	54858	Exoglucanase 1	<i>Phanerochaete</i>
94	313	Q06886 GUX1_PENJA	116.63	4	3	0	56860	Exoglucanase 1	<i>Penicillium</i>
142	373	A1DCV5 BGL_L_NEOFI	109.72	9	8	6	78745	Probable beta-glucosidase L	<i>Neosartorya</i>
139	260	G4NI45 CEL3A_MAGO7	105.75	5	3	3	77093	Beta-glucosidase cel3A	<i>Magnaporthe</i>
274	418	Q0CTD7 BGL_A_ASPTN	100.21	4	4	2	93356	Probable beta-glucosidase A	<i>Aspergillus</i>
274	425	D0VKF5 BGL_A_ASPTN	100.21	4	4	2	93333	Probable beta-glucosidase A	<i>Aspergillus</i>
83	376	P46238 GUX_C_FUSOX	77.99	2	1	0	54704	Putative exoglucanase type C	<i>Fusarium</i>
143	556	Q4WMU3 BGLF_ASFFU	76.06	7	5	5	92978	Probable beta-glucosidase F	<i>Neosartorya</i>
143	557	B0Y7Q8 BGLF_ASFFU	76.06	7	5	5	93060	Probable beta-glucosidase F	<i>Neosartorya</i>
524	7282	A1CMH6 BGL_LE_ASPLC	46.08	2	1	1	115389	Probable beta-glucosidase E	<i>Aspergillus</i>
277	388	P49075 GUX3_AGABI	44.33	2	1	0	46210	Exoglucanase 3	<i>Agaricus</i>
481	1013	G4N7Z0 CEL3B_MAGO7	41.90	0	0	0	82814	Beta-glucosidase cel3A	<i>Magnaporthe</i>
450	2669	A1DC16 BGLG_NEOFI	35.14	2	1	1	88967	Probable beta-glucosidase G	<i>Neosartorya</i>
450	5357	Q0CUC1 BGLG_ASPTN	35.14	2	1	1	88407	Probable beta-glucosidase G	<i>Aspergillus</i>
706	1050	Q5B5S8 BGLA_EMENI	32.30	0	0	0	93242	Probable beta-glucosidase A	<i>Emerizella</i>
252	1021	Q5B0F4 BGLG_EMENI	30.16	0	0	0	88639	Probable beta-glucosidase G	<i>Emerizella</i>
489	1141	Q2U325 BGLG_ASFOR	22.88	0	0	0	87701	Probable beta-glucosidase G	<i>Aspergillus</i>
489	1142	B8NMR5 BGLG_ASFFN	22.88	0	0	0	87701	Probable beta-glucosidase G	<i>Aspergillus</i>
490	1146	Q0C7L4 BGLM_ASPTN	22.60	0	0	0	84156	Probable beta-glucosidase M	<i>Aspergillus</i>

Table 4. OMSW. Replicate 2.

Protein Group	Protein ID	Accession	-10lgP	Coverage (%)	#Peptides	#Unique	Avg. Mass	Description	Genus
256	64	Q9P8P3 GUX1_TRIHA	113.98	6	3	1	53216	Exoglucanase 1	<i>Trichoderma</i>
233	90	P62695 GUX1_TRIKO	104.42	6	3	1	54073	Exoglucanase 1	<i>Trichoderma</i>
158	260	G4NI45 CEL3A_MAGO7	80.51	2	2	2	77093	Beta-glucosidase cel3A	<i>Magnaporthe</i>
159	360	Q12714 GUXN1_TRILO	72.79	9	2	2	48337	Endoglucanase EG-1	<i>Trichoderma</i>
493	104518	D4AN50 BGLA_ARTBC	61.67	1	1	1	88839	Probable beta-glucosidase ARB_05654	<i>Arthroderma</i>
152	557	B0Y7Q8 BGLF_ASPFC	55.94	3	3	3	93060	Probable beta-glucosidase F	<i>Neosartorya</i>
152	556	Q4WMU3 BGLF_ASPFU	55.94	3	3	3	92978	Probable beta-glucosidase F	<i>Neosartorya</i>
313	418	Q0CTD7 BGLA_ASPTN	51.02	1	1	1	93356	Probable beta-glucosidase A	<i>Aspergillus</i>
313	425	D0VKF5 BGLA_ASPTN	51.02	1	1	1	93333	Probable beta-glucosidase A	<i>Aspergillus</i>
255	373	A1DCV5 BGLL_NEOFI	48.63	3	2	1	78745	Probable beta-glucosidase L	<i>Neosartorya</i>
255	371	Q4WGT3 BGLL_ASPFU	44.37	3	2	1	78381	Probable beta-glucosidase L	<i>Neosartorya</i>
255	370	B0YB65 BGLL_ASPFC	44.37	3	2	1	78411	Probable beta-glucosidase L	<i>Neosartorya</i>
319	388	P49075 GUX3_AGABI	23.51	3	1	1	46210	Exoglucanase 3	<i>Agaricus</i>

Table 5. TP. Replicate 1.

Protein Group	Protein ID	Accession	-10lgP	Coverage (%)	#Peptides	#Unique	Avg. Mass	Description	Genus
493	1142	B8NMR5 BGLG_ASPFN	36.58	0	0	0	87701	Probable beta-glucosidase G	<i>Aspergillus</i>
603	1050	Q5B5S8 BGLA_EMENI	24.39	0	0	0	93242	Probable beta-glucosidase A	<i>Emmericella</i>
779	388	P49075 GUX3_AGABI	32.87	0	0	0	46210	Exoglucanase 3	<i>Agaricus</i>
615	370	B0YB65 BGLL_ASPFC	28.05	0	0	0	78411	Probable beta-glucosidase L	<i>Neosartorya</i>
615	371	Q4WGT3 BGLL_ASPFU	28.05	0	0	0	78381	Probable beta-glucosidase L	<i>Neosartorya</i>
615	373	A1DCV5 BGLL_NEOFI	28.05	0	0	0	78745	Probable beta-glucosidase L	<i>Neosartorya</i>

Table 6. TP. Replicate 2.

Protein Group	Protein ID	Accession	-10lgP	Coverage (%)	#Peptides	#Unique	Avg. Mass	Description	Genus
133	90	P62695 GUX1_TRIKO	167.4	12	6	3	54073	Exoglucanase 1	<i>Trichoderma</i>
132	64	Q9P8P3 GUX1_TRIHA	165.83	9	4	1	53216	Exoglucanase 1	<i>Trichoderma</i>
147	260	G4NI45 CEL3A_MAGO7	88.53	2	2	2	77093	Beta-glucosidase cel3A	<i>Magnaporthe</i>
143	541	A1DMR8 BGLF_NEOFI	57.82	2	2	2	93105	Probable beta-glucosidase F	<i>Neosartorya</i>
143	557	B0Y7Q8 BGLF_ASPFC	61.44	2	2	2	93060	Probable beta-glucosidase F	<i>Neosartorya</i>
143	556	Q4WMU3 BGLF_ASPFU	61.44	2	2	2	92978	Probable beta-glucosidase F	<i>Neosartorya</i>
302	373	A1DCV5 BGLL_NEOFI	54.21	2	2	2	78745	Probable beta-glucosidase L	<i>Neosartorya</i>
640	388	P49075 GUX3_AGABI	24.31	3	1	1	46210	Exoglucanase 3	<i>Agaricus</i>

Table 7. GP. Replicate 1.

Protein Group	Protein ID	Accession	-10lgP	Coverage (%)	#Peptides	#Unique	Avg. Mass	Description	Genus
9	64	Q9P8P3 GUX1_TRIHA	245.05	28	24	12	53216	Exoglucanase 1	<i>Trichoderma</i>
103	360	Q12714 GUXN1_TRILO	219.53	22	16	2	48337	Endoglucanase EG-1	<i>Trichoderma</i>
133	260	G4NI45 CEL3A_MAGO7	95.35	4	3	3	77093	Beta-glucosidase cel3A	<i>Magnaporthe</i>
622	104518	D4AN50 BGLA_ARTBC	63.5	1	1	1	88839	Probable beta-glucosidase ARB_05654	<i>Arthroderma</i>
368	371	Q4WGT3 BGLL_ASPFU	63.41	2	1	1	78381	Probable beta-glucosidase L	<i>Neosartorya</i>
368	370	B0YB65 BGLL_ASPFC	51.52	2	1	1	78411	Probable beta-glucosidase L	<i>Neosartorya</i>
272	163155	A5ABF5 BGLM_ASPNC	51.67	2	2	1	82116	Probable beta-glucosidase M	<i>Aspergillus</i>
251	1050	Q5B5S8 BGLA_EMENI	50.66	2	2	2	93242	Probable beta-glucosidase A	<i>Emericella</i>
251	667	B0XPE1 BGLA_ASPFC	47.23	2	2	2	94754	Probable beta-glucosidase A	<i>Neosartorya</i>
251	666	Q4WJJ3 BGLA_ASPFU	47.23	2	2	2	94753	Probable beta-glucosidase A	<i>Neosartorya</i>
251	425	D0VKF5 BGLA_ASPTA	46.89	2	2	2	93333	Probable beta-glucosidase A	<i>Aspergillus</i>
251	418	Q0CTD7 BGLA_ASPTN	46.89	2	2	2	93356	Probable beta-glucosidase A	<i>Aspergillus</i>
329	163136	Q4WR62 BGLM_ASPFU	49.68	2	2	1	82681	Probable beta-glucosidase M	<i>Neosartorya</i>
329	163135	B0XPB8 BGLM_ASPFC	49.68	2	2	1	82625	Probable beta-glucosidase M	<i>Neosartorya</i>
329	163137	A1D122 BGLM_NEOFI	49.68	2	2	1	82416	Probable beta-glucosidase M	<i>Neosartorya</i>
329	1146	Q0C7L4 BGLM_ASPTN	49.68	2	2	1	84156	Probable beta-glucosidase M	<i>Aspergillus</i>
329	163141	B8N5S6 BGLM_ASPFN	49.68	2	2	1	82429	Probable beta-glucosidase M	<i>Aspergillus</i>
329	163138	Q2UDK7 BGLM_ASPOR	49.68	2	2	1	82363	Probable beta-glucosidase M	<i>Aspergillus</i>
389	1142	B8NMR5 BGLG_ASPFN	33.35	1	1	1	87701	Probable beta-glucosidase G	<i>Aspergillus</i>

Table 8. GP. Replicate 1.

Protein Group	Protein ID	Accession	-10lgP	Coverage (%)	#Peptides	#Unique	Avg. Mass	Description	Genus
9	64	Q9P8P3 GUX1_TRIHA	219.09	25	19	8	53216	Exoglucanase 1	<i>Trichoderma</i>
89	360	Q12714 GUN1_TRILO	196.47	20	12	2	48337	Endoglucanase EG-1	<i>Trichoderma</i>
139	260	G4NI45 CEL3A_MAGO7	88.14	2	2	2	77093	Beta-glucosidase cel3A	<i>Magnaporthe</i>
75	376	P46238 GUXC_FUSOX	85.85	4	3	1	54704	Putative exoglucanase type C	<i>Fusarium</i>
210	667	B0XPE1 BGLA_ASPFC	79.57	4	3	2	94754	Probable beta-glucosidase A	<i>Neosartorya</i>
210	666	Q4WJJ3 BGLA_ASPFU	79.57	4	3	2	94753	Probable beta-glucosidase A	<i>Neosartorya</i>
181	373	A1DCV5 BGLL_NEOFI	75.45	6	5	4	78745	Probable beta-glucosidase L	<i>Neosartorya</i>
181	371	Q4WGT3 BGLL_ASPFU	77.58	6	4	3	78381	Probable beta-glucosidase L	<i>Neosartorya</i>
181	370	B0YB65 BGLL_ASPFC	77.58	6	4	3	78411	Probable beta-glucosidase L	<i>Neosartorya</i>
145	557	B0Y7Q8 BGLF_ASPFC	51.68	2	2	2	93060	Probable beta-glucosidase F	<i>Neosartorya</i>
145	556	Q4WMU3 BGLF_ASPFU	51.68	2	2	2	92978	Probable beta-glucosidase F	<i>Neosartorya</i>
270	163136	Q4WR62 BGLM_ASPFU	48.34	2	2	2	82681	Probable beta-glucosidase M	<i>Neosartorya</i>
270	163135	B0XPB8 BGLM_ASPFC	48.34	2	2	2	82625	Probable beta-glucosidase M	<i>Neosartorya</i>
270	163137	A1D122 BGLM_NEOFI	48.34	2	2	2	82416	Probable beta-glucosidase M	<i>Neosartorya</i>
270	163138	Q2UDK7 BGLM_ASPOR	48.34	2	2	2	82363	Probable beta-glucosidase M	<i>Aspergillus</i>
270	1146	Q0C7L4 BGLM_ASPTN	48.34	2	2	2	84156	Probable beta-glucosidase M	<i>Aspergillus</i>
270	163141	B8N5S6 BGLM_ASPFN	48.34	2	2	2	82429	Probable beta-glucosidase M	<i>Aspergillus</i>



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