Apidologie 40 (2009) 40–54

Online Material

Appendix I. Characteristics of two honey types used for the studies of survival of *Pantoea agglomerans*.

	Blossom honey	Blossom honey with honey dew
Moisture	17.2%	17.4%
Electrical conductivity	230 μS/cm	585 μS/cm
pH	3.6	3.1
HMF*	<BG (21) mg/kg	<BG (21) mg/kg
Dominant pollen group	*Cardamine pratensis*	*Prunus* sp.
	Tilia platyphyllos	*Malus* sp.
	Allium sp.	
Subdominant pollen group	*Helianthus annuus*	*Helianthus annuus*
	Trifolium repens	*Trifolium repens*
	Betula pendula	*Betula pendula*
	Taraxacum officinale group	*Taraxacum officinale* group
	Acer campestre	*Acer campestre*
	Ailanthus altissima	*Campanula* sp.
	Malus sp.	*Onobrychis viciifolia*
	Phacelia tanacetifolia	*Hypericum perforatum*
	Trifolium pratense	*Lotus corniculatus*
	Fragaria vesca	*Plantago lanceolata*
	Galium mollugo	*Helianthemum nummularium*
	Vicia faba	*Erica carnea*
	Robinia pseudacacia	*Pinus nigra*
	Melilotus albus	*Cirsium arvense*
	Brassica napus	*Achillea* sp.
	Echium vulgare	*Galium mollugo*
	2 pollen types not identified	*Salix* sp.
		1 pollen type not identifie
		fungi spores
		algae

* Hydroxymethylfurfural.

Appendix II. Origin of strains utilized in this work and frequency of isolation during sampling period.

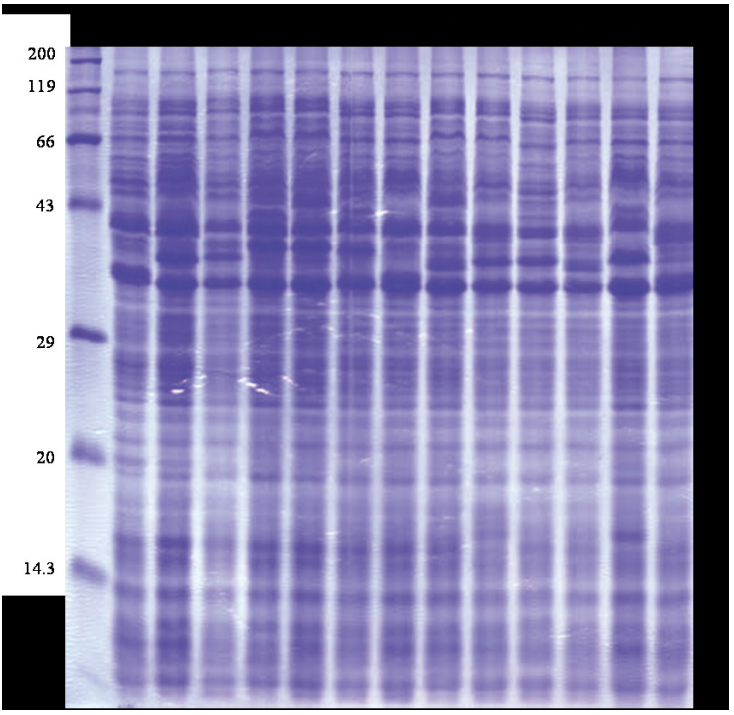
No.*	Strain name	Origin	Origin and frequency of isolation			
			Honeysac	Pollenloads	Nectar	Plant
1	P21n	Pl [20]	2 [18,20]	9 [3,11,20,a,nk]		10 [1,2,13,17]
2	P31i	B [19]	2 [19,20]	4 [19,20]	1 [19]	16 [17,19]
3	P232b	Pl [11]	1 [11]			1 [11]
4	P273e	B [2]				
5	P301f	B [20]	2 [11,20]	5 [11,20]	2 [11]	6 [11,20]
6	P361g	B [15]		3 [15]	1 [1]	2 [11]
7	P373n	Hs [g]	1 [d]	5 [a,c,h,nk]		2 [12,15]
8	P413o	Pl [e]	1 [g]	5 [15,a,e]		3 [15]
9	P453b	B[11]	1 [10]	3 [3,7,16]		1 [7]
10	P484j	Pl [g]		1 [c]		1 [8]
11	P533j	B [12]		1 [i]		
12	P583k	B [15]				1 [4]
13	P715g	B [20]	1 [20]	1 [20]	1 [20]	2 [20]
14	P735b	B [4]				
15	P745b	B [4]	1 [5]	2 [15,c]		3 [4,5,12]
16	P791g	B [15]		3 [15]		4 [15]
17	P823l	B [8]		2 [3,8]		
18	P862i	B [14]	4 [3,14,np]	9 [3,5,14,nk,np]		11 [3,5,14]
19	P891f	B [20]	2 [20]			2[20]
20	P975c	B [8]				
21	P985b	B [4]				
22	P1005t	Pl [3]	1 [15]	2 [5]		3 [5]
23	P1035f	B [3]		2[3]		
24	P1137n	Hs [5]				
25	P115bPa337	B [17]		1 [17]		2 [17]
26	P1187p	Pl [5]	1 [5]	1 [5]		5 [5]
27	P1218j	B [16]		2 [5,16]		1 [16]
28	P1269j	Pl [nk]				
29	P1348j	B [16]	3 [16,npa]	3 [16,npa]		6 [9,16]
30	P1378h	B [7]	1 [7]	1 [7]		
31	P1416k	N [21]	2 [16,20]	15 [3,10,16,19,20,b,f,g,nk,npa]		26 [9,10,14,16,17,19,20]
32	P16813f	Pl [h]				
33	P17113n	B [6]	2 [nk]	1 [6]		1 [19]
34	P17813b	B [18]	1 [18]			

Appendix II. Continued.

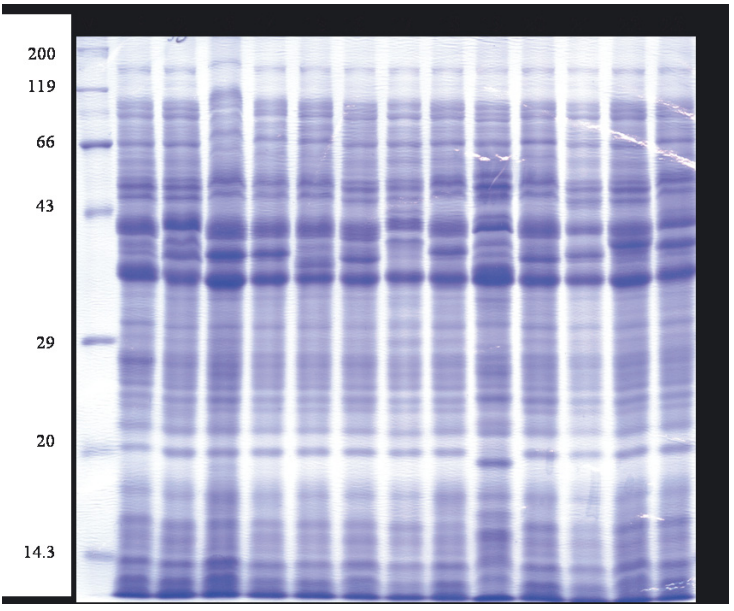
No.*	Strain name	Origin	Origin and frequency of isolation			
			Honeysac	Pollenloads	Nectar	Plant
35	P18113b	B [18]	1 [18]	1[18]		
36	64b	B [19]		3 [19]	1 [19]	4 [16,19]
37	68b	Pl [nk]				
38	90b	B [20]				
39	91b	Pl [6]				
40	280b	B [21]		1[21]	1 [21]	
41	690b	Pl [nk]				
42	700b	B [15]		2[15]		1 [15]
43	765b	B [14]		2 [14]		
44	1351b	Pl [b]				
45	1376b	Pl [17]				1 [17]
46	1410b	Pl [g]		1 [3]		
47	1436b	Pl [3]		1 [8]		
48	1440b	B [15]				
49	P190	B [18]				4 [4,7,20,21]
50	P217	B [8]				3 [8,9,16]

B: blossom; Hs: honey sac; Pl: pollen loads; N: nectar.
Superscript indicates plant or pollen origin, number indicates frequency of isolation.
Plants collected or their pollen was found in samples: [1] *Agrimonia procera*, [2] *Atropa belladonna nigra*, [3] *Carduus crispus*, [4] *Cichorium intybus*, [5] *Cirsium arvense*, [6] *Cuscuta europaea*, [7] *Dorycnium germanicum*, [8] *Echium vulgare*, [9] *Fagopyrum esculentum*,[10] *Helianthemum nummularium*, [11] *Hemerocallis* sp., [12] *Origanum vulgare*, [13] *Papaver rhoeas*, [14] *Parthenocissus triscupidata*, [15] *Phacelia tanacetifolia*, [16] *Picris hieracioides*, [17] *Plantago* sp., [18] *Solidago virgaurea*, [19] *Taraxacum officinale group*, [20] *Tilia* sp., [21] *Trifolium repens*.
Plants which were not collected but their pollen was found in samples: [a] *Allium* sp., [b] *Artemisia santonicum*, [c] *Asparagus officinalis*, [d] *Brassica napus*, [e] *Fragaria ananassa*, [f] *Geum urbanum*, [g] *Helianthus annuus*, [h] *Odonites vulgaris*, [i] *Sinapis arvensis*.
[nk] not identified; [np] no pollen; [npa] pollen analysis was not performed; * protein profile, RAPD profil.

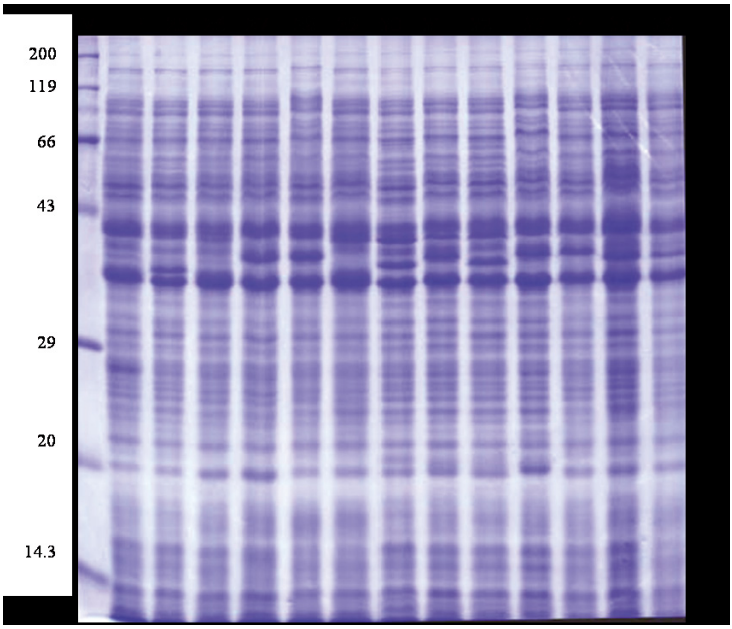
Appendix IIIa–e. SDS-PAGE of the whole-cell proteins of the *Pantoea agglomerans strains*. Lane M, molecular weight marker, numbers indicate molecular weight in kD, lane P, DSM 3493^{T} (a–e), lane D DSM 1619 (a). Appendix IIIa, b after Lane M and P numbers indicate strains listed in Appendix II (supplementary data).



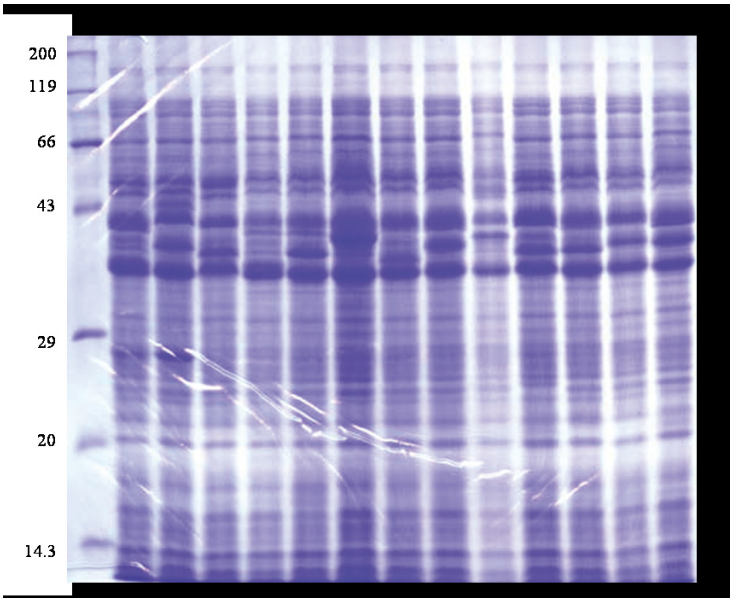
a



b

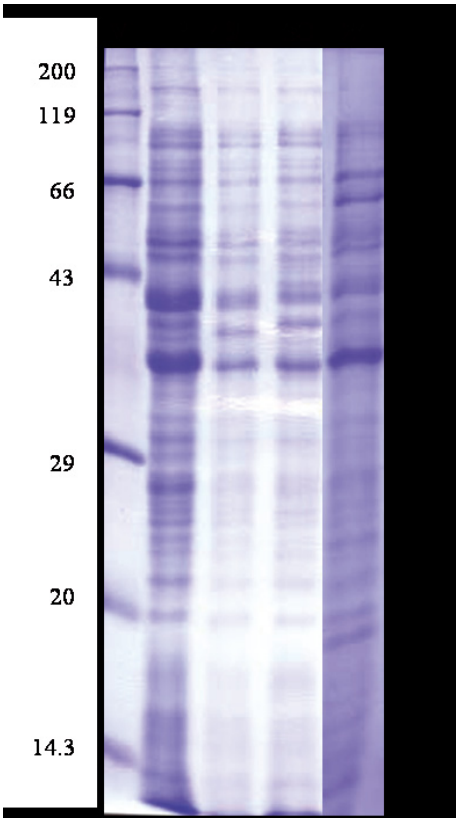


c



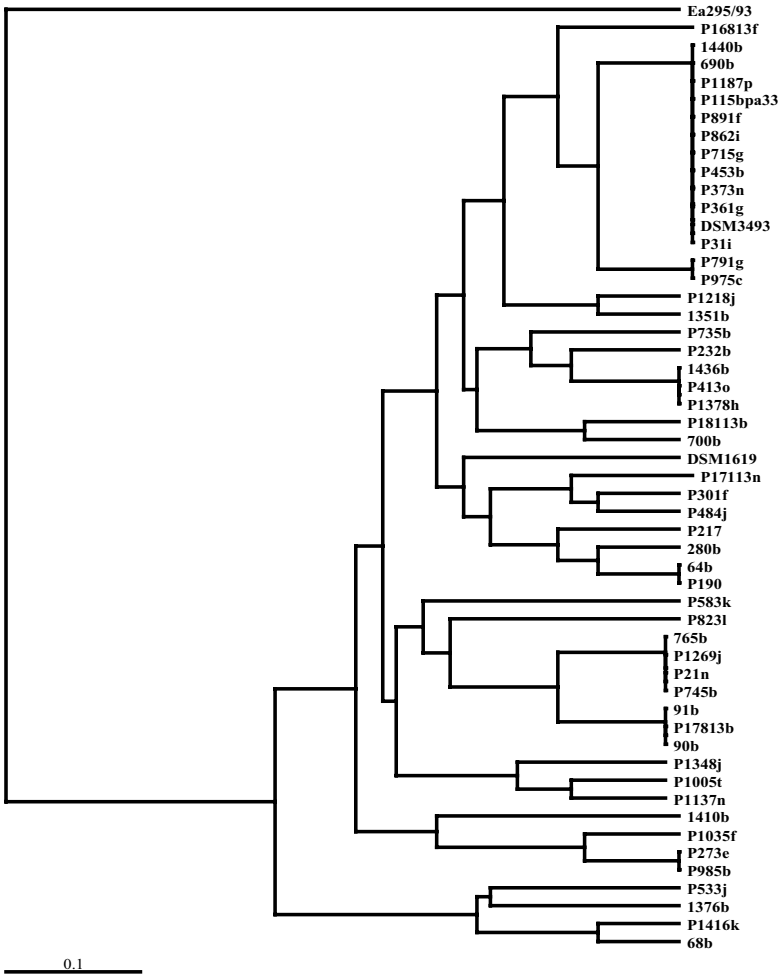
d

Appendix IIIa–e. Continued.



e

Appendix IIIa–e. Continued.



Appendix IV. UPGMA dendrogram derived by comparing the ERIC-PCR patterns obtained after ERIC-PCR from 52 *P. agglomerans* strains and one strain of *E. amylovora* 295/93. The scale indicates genetic distance measurements as calculated by UPGMA method.