

Appendix A-i Collection of *Phytophthora* spp. from coconut cropping systems of Indonesia

BALITKA Code	IMI Number	Host/source	Province	District	Species identification	ITS profile	AFLP profile	Pathogenicity
90P01	382252	Nutfall	N. Sulawesi	Minahasa	<i>P. palmivora</i>	2	1	
90P05		Nutfall	N. Sulawesi	Mapanget	<i>P. palmivora</i>	2	1	
90P06		Nutfall	N. Sulawesi	Minahasa	<i>P. palmivora</i>	1	1	
90P10		Budrot	N. Sumatera		<i>P. palmivora</i>	1	1	
90P11		Nutfall	N. Sumatera		<i>P. palmivora</i>	2	1	
90P12	382253	Nutfall	N. Sulawesi		<i>P. palmivora</i>	2	1	
90P13		Budrot	N. Sumatera		<i>P. palmivora</i>	1	1	
90P15	382254	Nutfall (on soil)	N. Sulawesi	Tetey	<i>P. palmivora</i>			
90P16		Nutfall	N. Sulawesi	Mapanget	<i>P. palmivora</i>	1	1	
90P17	382255	Nutfall	N. Sulawesi	Mapanget	<i>P. palmivora</i>	2	1	
90P18	382256	Nutfall	N. Sulawesi	Batu api	<i>P. palmivora</i>	2	1	
90P21	382257	Nutfall (on soil)	N. Sulawesi	Wasian	<i>P. palmivora</i>	2	1	
90P22		Nutfall (on soil)	N. Sulawesi	Wasian	<i>P. palmivora</i>	1	1	
90P23	382258	Nutfall (on soil)	N. Sulawesi	Wasian	<i>P. palmivora</i>	1	1	
90P25		Nutfall	N. Sulawesi	Tetey	<i>P. palmivora</i>	2	1	
90P26	382259	Nutfall	N. Sulawesi	Mapanget	<i>P. palmivora</i>	1	1	
90P27		Nutfall	N. Sulawesi	Laikit	<i>P. palmivora</i>	1	1	
90P28	382260	Nutfall	N. Sulawesi	Laikit	<i>P. palmivora</i>	1	1	
90P30		Nutfall	N. Sulawesi		<i>P. palmivora</i>	2	1	
90P33	382261				<i>P. palmivora</i>	1	1	
91P03	382262	Nutfall	N. Sulawesi	Tetey	<i>P. palmivora</i>	2	1	
91P04		Budrot	N. Sulawesi	Tetey	<i>P. palmivora</i>	1	1	
91P05	382263	Nutfall	N. Sulawesi	Mapanget	<i>P. palmivora</i>	2	1	
91P06	382264	Budrot	C. Sulawesi	Sibayu	<i>P. palmivora</i>	1	1	++
91P08	382265	Nutfall	C. Sulawesi	Sibayu	<i>P. palmivora</i>	2	1	++
91P09	382266	Budrot	C. Sulawesi	Ombo	<i>P. palmivora</i>	1	1	++
91P13		Budrot/Nutfall	C. Sulawesi	Tombus	<i>P. palmivora</i>	1	1	
91P39	382267	Soil	W. Java	Lampung	<i>P. palmivora</i>	2	1	+
91P42	382268	Budrot	N. Sumatra	Medan	<i>P. palmivora</i>			
91P55	382269	Budrot	Moluccas		<i>P. palmivora</i>	1	1	+
91P78	382270	Nutfall	N. Sulawesi	Tandu/Kolak	<i>P. palmivora</i>	1	1	++
91P80	382271	Nutfall	N. Sulawesi	Sukur/Minahosa	<i>P. palmivora</i>	1	1	
91P81	382272	Nutfall	N. Sulawesi	Tunggola	<i>P. palmivora</i>	1	1	
91P83	382273	Nutfall	N. Sulawesi	Tunggola	<i>P. palmivora</i>	1	1	
91P155	382370				<i>P. palmivora</i>			
92P08	382371	Nutfall	N. Sumatra	Baugun Puisa	<i>P. palmivora</i>	2	1	++
92P09	382372	Soil	N. Sulawesi	Tombatu/Sulut	<i>P. palmivora</i>			
92P10	382373	Nutfall	N. Sulawesi	Sulut	<i>P. palmivora</i>			
92P13	382374	Budrot	N. Sulawesi	Sulut	<i>P. palmivora</i>			
92P14	382375	Black pod	N. Sulawesi	Teuga/Sulut	<i>P. palmivora</i>	1	2	+
92P18	382376	Rainfall	N. Sulawesi		<i>P. palmivora</i>	1	1	
92P28	382377	Rainfall	N. Sulawesi		<i>P. palmivora</i>	1	1	
92P31	382378	Rainfall	N. Sulawesi		<i>P. palmivora</i>	1	1	
92P34	382379	Rainfall	N. Sulawesi		<i>P. palmivora</i>	1	1	
92P45		Budrot	W. Java	Ciemas	<i>P. palmivora</i>	2	1	
92P177	382381	Budrot	N. Sulawesi		<i>P. palmivora</i>	1	1	+
92P179	382382	Nutfall	N. Sulawesi		<i>P. palmivora</i>			
92P181	382383	Nutfall	N. Sulawesi		<i>P. palmivora</i>	2	1	
92P197	382384	Soil	N. Sulawesi		<i>P. palmivora</i>	1	1	+
92P198	382385	Soil	N. Sulawesi		<i>P. palmivora</i>	1	1	+
92P264	382386	Blackpod	W. Java	Lampung	<i>P. palmivora</i>	2	1	
92P269	382387	Nutfall	W. Java	Lampung	<i>P. palmivora</i>	1	1	+
92P270	382388	Nutfall	N. Sulawesi	Boyongatas/Sulut	<i>P. palmivora</i>	1	1	++
93P27	382389	Nutfall	W. Java	Lampung	<i>P. palmivora</i>	1	1	++
93P36	382390	Soil	N. Sulawesi	Tiniawanjko	<i>P. palmivora</i>	1	1	+
93P40	382391	Soil	N. Sulawesi		<i>P. palmivora</i>			
93P46	382392	Nutfall	N. Sulawesi	Tetey	<i>P. palmivora</i>	2	1	
93P47					<i>P. palmivora</i>			
93P55	382393	Soil	N. Sulawesi	Aceh	<i>P. palmivora</i>	2	1	+
93P56	382394		N. Sulawesi		<i>P. palmivora</i>	2	1	
93P59	382395	Nutfall	N. Sulawesi	Tiniawanjko	<i>P. palmivora</i>	1	1	
93P61	382396	Black pod	N. Sulawesi	Tiniawanjko	<i>P. citrophthora</i>			++
93P64	382397	Soil (O. matter)	N. Sulawesi	Koka	<i>P. palmivora</i>			

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BALITKA Code	IMI Number	Host/source	Province	District	Species identification	ITS profile	AFLP profile	Pathogenicity
93P74	382398	Soil	N. Sulawesi	Koka	<i>P. palmivora</i>			
93P77	382399	Soil	N. Sulawesi	Koka	<i>P. palmivora</i>			
93P79	382400	Soil	N. Sulawesi	Koka	<i>P. palmivora</i>	2	1	
93P94	382403	Soil	N. Sulawesi	Tumalunting	<i>P. palmivora</i>			
93P97	382404	Soil (O. matter)	N. Sulawesi	Koka	<i>P. palmivora</i>			
93P103	382405	Soil	N. Sulawesi	Koka	<i>P. palmivora</i>			
93P105	382406	Soil	N. Sulawesi	Koka	<i>P. palmivora</i>	1	2	
93P107	382407	Nutfall	N. Sulawesi	Paniki	<i>P. palmivora</i>	1	1	
93P108	382408	Budrot	N. Sulawesi	Tumalunting	<i>P. palmivora</i>			
93P110	382409	Budrot	N. Sulawesi	Tumalunting	<i>P. palmivora</i>	2	1	+
94P03	382410	Budrot			<i>P. palmivora</i>	1	1	+
94P05	382412	Black pod	C. Sumatra	Jambi	<i>P. palmivora</i>	1	2	++
94P11			C. Sumatra		<i>P. palmivora</i>			
94P15	382413	Black pod	C. Sumatra	Jambi	<i>P. palmivora</i>	1	2	+
94P16	382414	Black pod	C. Sumatra	Jambi	<i>P. palmivora</i>	2	1	
94P18	382415	Black pod	N. Sumatera	Baugun Puisa	<i>P. palmivora</i>	1	2	
94P20	382416	Nutfall	W. Sumatera	Sukamenantis	<i>P. palmivora</i>	1	1	++
94P22	382417	Nutfall	W. Sumatera	Sukamenantis	<i>P. palmivora</i>	1	1	+
94P23	382418	Nutfall	W. Sumatera	Sukamenantis	<i>P. palmivora</i>	1	1	
94P24	382419	Nutfall	W. Sumatera	Sukamenantis	<i>P. palmivora</i>	1	1	
94P25	382420	Nutfall	W. Sumatera	Sukamenantis	<i>P. palmivora</i>	1	1	
94P26	382421	Nutfall	W. Sumatera	Sukamenantis	<i>P. palmivora</i>	1	1	+
94P28	382422	Nutfall	W. Sumatera	Sukamenantis	<i>P. palmivora</i>	1	1	
94P29	382423	Nutfall	W. Sumatera	Sukamenantis	<i>P. palmivora</i>	1	1	
94P30	382424	Nutfall	W. Sumatera	Sukamenantis	<i>P. palmivora</i>	1	1	
94P31	382425	Nutfall	W. Sumatera	Sukamenantis	<i>P. palmivora</i>	1	1	+
94P33	382426	Nutfall	W. Sumatera	Sukamenantis	<i>P. palmivora</i>	1	1	
94P37	382427	Black pod	N. Sulawesi	Tiniawanjko/Sulut	<i>P. palmivora</i>	1	2	
94P42	382429	Black pod	E. Java		<i>P. palmivora</i>	1	2	+
94P43	382430	Black pod	E. Java		<i>P. palmivora</i>	1	2	++
94P44	382431	Black pod	E. Java		<i>P. palmivora</i>	1	2	
94P54	382432	Black pod	E. Java		<i>P. palmivora</i>	1	2	
94P55	382433	Black pod	E. Java		<i>P. palmivora</i>	1	2	+
94P56	382434	Black pod	E. Java		<i>P. palmivora</i>	1	2	+
94P57	382435	Black pod	E. Java		<i>P. palmivora</i>	1	2	
94P61	382502	Budrot	N. Sulawesi	Bayangates/Sulut	<i>P. palmivora</i>	2	1	+
94P62	382503	Budrot	N. Sulawesi	Bayangates/Sulut	<i>P. palmivora</i>			
94P63	382504	Budrot	N. Sulawesi	Bayangates/Sulut	<i>P. palmivora</i>	2	1	++
94P64	382505	Budrot	N. Sulawesi	Bayangates/Sulut	<i>P. palmivora</i>	2	1	++
94P65	382506	Budrot	N. Sulawesi	Bayangates/Sulut	<i>P. palmivora</i>	2	1	
94P70			N. Sulawesi		<i>P. palmivora</i>	2	1	
94P72	382508	Nutfall	N. Sulawesi	Tiniawanjko/Sulut	<i>P. palmivora</i>			
94P73		Nutfall	N. Sulawesi	Tiniawanjko/Sulut	<i>P. palmivora</i>	1	1	
94P74					<i>P. palmivora</i>	1	1	
97P01	382509	Soil	N. Sulawesi		<i>P. palmivora</i>	2	1	
97P02		Soil	N. Sulawesi		<i>P. palmivora</i>	1	1	
97P03	382510	Soil	N. Sulawesi		<i>P. palmivora</i>	2	1	
97P04	382511	Soil	N. Sulawesi		<i>P. palmivora</i>	1	1	+
97P05	382512	Soil	N. Sulawesi		<i>P. palmivora</i>	1	1	
97P06	382513	Soil	N. Sulawesi		<i>P. palmivora</i>	2	1	
97P07	382514	Soil	N. Sulawesi		<i>P. palmivora</i>	2	1	
97P08					<i>P. palmivora</i>			
97P08	382515				<i>P. palmivora</i>			
97P10	382516	Soil	N. Sulawesi		<i>P. palmivora</i>	2	1	
97P11	382517	Soil	N. Sulawesi		<i>P. palmivora</i>	1	1	
97P12	382518	Soil	N. Sulawesi		<i>P. palmivora</i>	2	1	
97P13		Soil	N. Sulawesi		<i>P. palmivora</i>	1	1	
97P14	382519	Soil	N. Sulawesi		<i>P. palmivora</i>	2	1	
97P15	382520	Soil	N. Sulawesi		<i>P. palmivora</i>	2	1	+
97P16	382521	Soil	N. Sulawesi		<i>P. palmivora</i>	2	1	
98P01	382522	Budrot	N. Sulawesi		<i>P. palmivora</i>	1	1	+
98P02	382523	Budrot	N. Sulawesi		<i>P. palmivora</i>	2	1	+
98P03	382524	Budrot	N. Sulawesi		<i>P. palmivora</i>	1	1	++

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BALITKA Code	IMI Number	Host/source	Province	District	Species identification	ITS profile	AFLP profile	Pathogenicity
98P04	382525	Budrot	N. Sulawesi		<i>P. palmivora</i>	2	1	++
98P05	382526	Budrot	N. Sulawesi		<i>P. palmivora</i>	2	1	++
98P06	382527	Budrot	N. Sulawesi		<i>P. palmivora</i>	2	1	++
98P07	382528	Budrot	N. Sulawesi		<i>P. palmivora</i>			
98P08	382529	Budrot	N. Sulawesi		<i>P. palmivora</i>	2	1	+
98P09	382530	Budrot	N. Sulawesi		<i>P. palmivora</i>	2	1	
98P10	382531	Budrot	N. Sulawesi		<i>P. palmivora</i>	1	1	
98P11	382532	Insect	N. Sulawesi		<i>P. palmivora</i>	2	1	
98P12	382533	Budrot	N. Sulawesi		<i>P. palmivora</i>	1	1	+
99P02	382534	Soil	N. Sulawesi		<i>P. palmivora</i>	1	1	+
99P05	382535	Nutfall	N. Sulawesi		<i>P. palmivora</i>	1	1	+
99P07	382536	Soil	N. Sulawesi		<i>P. palmivora</i>			
99P10	382537	Nutfall	N. Sulawesi		<i>P. palmivora</i>	1	1	++
99P12	382538	Budrot	N. Sulawesi		<i>P. palmivora</i>	1	1	+
99P14	382539	Budrot	N. Sulawesi		<i>P. palmivora</i>	2	1	
99P22	382540	Nutfall	N. Sulawesi		<i>P. palmivora</i>			
99P24	382541	Nutfall	N. Sulawesi		<i>P. palmivora</i>			
99P25	382542	Nutfall	N. Sulawesi		<i>P. palmivora</i>	1	1	+
99P27	382543	Nutfall	N. Sulawesi		<i>P. palmivora</i>			
99P29	382544	Nutfall	N. Sulawesi		<i>P. palmivora</i>	1	1	++
99P30	382545	Budrot	N. Sulawesi		<i>P. palmivora</i>	2	1	+
99P31	382546	Budrot	N. Sulawesi		<i>P. palmivora</i>	2	1	+
99P32	382547	Budrot	N. Sulawesi		<i>P. palmivora</i>			
99P35	382548	Soil	N. Sulawesi		<i>P. palmivora</i>	1	1	+
99P45	382549	Soil	N. Sulawesi		<i>P. palmivora</i>	2	1	+
99P49	382550	Nutfall	N. Sulawesi		<i>P. palmivora</i>	1	1	+
99P59	382551	Budrot	N. Sulawesi		<i>P. palmivora</i>	1	1	++
99P81	382552	Nutfall	N. Sulawesi		<i>P. palmivora</i>	1	1	+
99P83	382553	Nutfall	N. Sulawesi		<i>P. palmivora</i>			
99P84	382554	Nutfall	N. Sulawesi		<i>P. palmivora</i>			
99P85	382555	Nutfall	N. Sulawesi		<i>P. palmivora</i>	1	1	++
99P93	382556	Soil	N. Sulawesi		<i>P. palmivora</i>			
99P96	382557	Black pod	N. Sulawesi		<i>P. palmivora</i>			
99P105	382558	Black pod	N. Sulawesi		<i>P. palmivora</i>	2	1	++
99P106	383305	Black pod	N. Sulawesi		<i>P. palmivora</i>	1	2	++
99P107	383306	Black pod	N. Sulawesi		<i>P. palmivora</i>	1	2	++
IN A	382559	Pepper	Bogor		<i>P. capsici</i>			++
	IMI337104				<i>P. megakarya</i>			
	IMI304412				<i>P. katsurae</i>			
	IMI337098				<i>P. megakarya</i>			

Key =

- Indicates that the culture has subsequently lost viability
- BALITKA code - Initial 2 digits denotes year of collection
- ITS code - 1 denotes single ITS sequence; 2 denotes multiple ITS sequence
- AFLP code = Numbers denote distinct AFLP profiles
- \* = Isolate used in pathogenicity assessment
- \*\* = Isolate used in pathogenicity and host range assessment