

Table 1. Isolate information and molecular typing results for standard laboratory strains, clinical, veterinary, and environmental isolates from Vancouver Island (VI), and other global strains

Isolate ID	Serotype	PCR-fingerprinting molecular type	URA5-RFLP molecular type	AFLP type	Mating type	Geographical origin	Host factors	Specific source
Molecular standard laboratory strains								
WM148	A	VNI	VNI	1	α^{\dagger}	Sydney, Australia	HIV+	CSF
WM626	A	VNII	VNII	1A	α^{\dagger}	Sydney	Immunocompetent	CSF
WM628	AD	VNIII	VNIII	3	a/α^{\dagger}	Melbourne, Australia	HIV+	CSF
WM629	D	VNIV	VNIV	2	α^{\dagger}	Melbourne	HIV	Blood
WM179	B	VGI	VGI	4	α^{\dagger}	Sydney	Immunocompetent	CSF
WM178	B	VGII	VGII	6	α^{\dagger}	Sydney	Immunocompetent	CSF
WM161	B	VGIII	VGIII	5	α^{\dagger}	San Diego, CA	N/A	<i>E. camaldulensis</i> wood from hollow
WM779	C	VGIV	VGIV	7	α^{\dagger}	Johannesburg, South Africa	N/A	Cheetah
Clinical isolates, British Columbia, Canada								
99M R10	B	VGIIa	VGII	6A	α^{\dagger}	Vancouver	Immunocompetent	Male, CSF
A0M R432	B	VGIIa	VGII	6A	α^{\dagger}	Victoria, VI, Canada	Immunocompetent	Female, CSF
A1M R265	B	VGIIa	VGII	6A	α^{\dagger}	Duncan, VI	Immunocompetent	Male, bronchial wash
A1M R266*	A	VNI	VNI	1	Not typed	Victoria	HIV+	Male, bronchial wash
A1M R268	B	VGIIa	VGII	6A	α^{\dagger}	Lantzville, VI	Immunocompetent	Female, CSF
A1M R269	B	VGIIa	VGII	6A	α^{\dagger}	Victoria	Immunocompetent	Female, bronchial wash
A1M R270*	D	VNIV	VNIV	2	Not typed	Data not available	HIV+	BAL
A1M R271	B	VGIIa	VGII	6A	α^{\dagger}	Nanoose Bay, VI	Immunocompetent	Male, BAL
A1M R272	B	VGIIb	VGII	6B	No mating [†]	Ladysmith, VI	Immunocompetent	Female, BAL
A1M R273	B	VGIIa	VGII	6A	α^{\dagger}	Victoria	Immunocompetent	Male, BAL
A1M R312*	A	VNI	VNI	1	Not typed	Victoria	HIV+	Male, blood
A1M R314*	D	VNIV	VNIV	2	Not typed	Victoria	HIV+	Male, blood
A1M R322	B	VGIIa	VGII	6A	α^{\dagger}	Parksville, VI	Immunocompetent	Female, CSF
A1M R360	B	VGIIa	VGII	6A	α^{\dagger}	Victoria	Immunocompetent	Male, lung aspiration
A1M R368	B	VGIIa	VGII	6A	α^{\dagger}	Victoria	Immunocompetent	Male, CSF
A1M R369	B	VGIIa	VGII	6A	α^{\dagger}	Victoria	Immunocompetent	Male, CSF
A1M R406	B	VGIIa	VGII	6A	α^{\dagger}	Nanaimo, VI	Immunocompetent	Female, CSF
A1M R409	B	VGIIa	VGII	6A	α^{\dagger}	Victoria	Immunocompetent	Female, BAL
A1M R449*	A	VNI	VNI	1	Not typed	Victoria	HIV+	Female, CSF
A1M R461*	D	VNIV	VNIV	2	Not typed	Vancouver	HIV+	Female, BAL
A1M R507	B	VGIIa	VGII	6A	α^{\dagger}	Vancouver	Immunocompetent	Female, CSF
A1M R540	B	VGIIa	VGII	6A	α^{\dagger}	Victoria	Immunocompetent	Male, CSF
A1M R634	B	VGIIa	VGII	6A	α^{\dagger}	Victoria	Immunocompetent	Male, lung aspiration
A1M R794	B	VGI	VGI	4	No mating [†]	Vancouver	Immunocompetent	Female, CSF

A1M F2932	B	VGIIa	VGII	6C	α^\dagger	Kelowna	Immunocompetent	Male, lung
A1M F3179	B	VGIIa	VGII	6C	α^\dagger	Vancouver	Immunocompetent	Male, sputum
A1M F3197	B	VGIIa	VGII	6A	α^\dagger	Black Creek, VI	Immunocompetent	Male, BAL
Veterinary isolates, British Columbia								
A1M R498	B	VGIIa	VGII	6A	α^\dagger	Victoria	N/A	Pet cat, sinus tract swab
A1M R500	B	VGIIa	VGII	6A	α^\dagger	Victoria	N/A	Pet cat, sinus tract swab
A1M F2863	B	VGI	VGI	4	α^\dagger	Shores of Gulf Island (close to VI)	N/A	Dead wild Dall's porpoise mediastinal lymph node
A1M F2866	B	VGIIa	VGII	6C	No mating [†]	Shores of Gulf Island	N/A	Dead wild Dall's porpoise lymph node
A1M F2596	B	VGIIa	VGII	6C	α^\dagger	Nanaimo	N/A	Pet dog, lump on head
A1M F3016	B	VGIIa	VGII	6A	α^\dagger	Shores of Gulf Island	N/A	Dead wild Dall's porpoise lymph node
Environmental isolates, British Columbia								
E113	B	VGIIa	VGII	6A	α^\dagger	RBPP, Parksville, VI	N/A	Douglas fir 113 (hollow 1: 1/1)
ENV123	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Douglas fir 113 (hollow 2: 1/1)
ENV124	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Soil beneath Douglas fir 113
ENV125	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Douglas fir 125
ENV129	B	VGIIb	VGII	6B	α^\dagger	RBPP	N/A	Douglas fir 129
ENV130	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Douglas fir 130
ENV131	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Douglas fir 131
ENV133	B	VGIIb	VGII	6B	α^\dagger	RBPP	N/A	Douglas fir 133
ENV152	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Alder tree 152
ENV153	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Alder 153
MAC-9	B	VGIIa	VGII	6A	α^\dagger	MMP, Cathedral Grove, VI	N/A	Cedar tree 296
RB1	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Retest of Douglas fir 113 (hollow 2: 1/6)
RB2	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Retest of Douglas fir 113 (hollow 2: 2/6)
RB3	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Retest of Douglas fir 113 (hollow 2: 3/6)
RB4	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Retest of Douglas fir 113 (hollow 2: 4/6)
RB5	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Retest of Douglas fir 113 (hollow 2: 5/6)
RB8	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Retest of Douglas fir 113 (hollow 3: 1/3)
RB9	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Retest of Douglas fir 113 (hollow 4: 1/3)
RB11	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Retest of Douglas fir 113

RB13	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	(hollow 1: 1/1) Retest of Douglas fir 113 (hollow 3: 2/3)
RB14	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Retest of Douglas fir 113 (hollow 4: 2/3)
RB15	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Retest of Douglas fir 113 (hollow 5: 1/2)
RB17	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Retest of Douglas fir 113 (hollow 2: 6/6)
RB18	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Retest of Douglas fir 113 (hollow 3: 3/3)
RB19	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Retest of Douglas fir 113 (hollow 4: 3/3)
RB20	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Retest of Douglas fir 113 (hollow 5: 2/2)
RB22	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Retest of alder 153 (hollow 1: 1/2)
RB25	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Retest of alder 153 (hollow 1: 2/2)
RB26	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Retest of alder 153 (hollow 2: 1/1)
RB28	B	VGIIb	VGII	6B	α^{\dagger}	RBPP	N/A	Douglas fir stump (swab 1/1)
RB29	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Douglas fir 194
RB30	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Douglas fir 195 (composite swab)
RB31	B	VGIIb	VGII	6B	α^{\dagger}	RBPP	N/A	Douglas fir 196 (composite swab)
RB32	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Alder 197 (composite swab)
RB33	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Young Douglas fir 198 (composite swab)
RB34	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Douglas fir 199 (composite swab)
RB35	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Douglas fir 200 (composite swab)
RB37	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Retest of Douglas fir 125
RB39	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Douglas fir 203
RB40	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Retest of Douglas fir 125 (hollow 1)
RB41	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Retest of Douglas fir 125 (hollow 2)
RB45	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Retest of alder 152 (swab 2/5)
RB46	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Retest of alder 152 (swab 3/5)
RB48	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Retest of alder 152 (swab 5/5)
RB50	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Alder 167 (composite swab)
RB52	B	VGIIb	VGII	6B	α^{\dagger}	RBPP	N/A	Grand fir tree 169
RB54	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Young Douglas fir 171 (composite swab)
RB55	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Garry oak tree 172 (composite swab)
RB56	B	VGIIa	VGII	6A	α^{\dagger}	RBPP	N/A	Garry oak 173 (composite swab)

RB57	B	VGIIb	VGII	6B	α^\dagger	RBPP	N/A	Retest of Douglas fir 126 (hollow 1: 1/2)
RB58	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Retest of Douglas fir 126 (hollow 1: 2/2)
RB59	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Retest of Douglas fir 126 (hollow 2: 1/2)
RB61	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Retest of Douglas fir 129 (swab 1/2)
RB62	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Douglas fir 129 (swab 2/2)
RB63	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Retest of Douglas fir 129
RB67	B	VGIIb	VGII	6B	α^\dagger	RBPP	N/A	Retest of Douglas fir 130 (swab 1/2)
RB69	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Retest of Douglas fir 130 (swab 2/2)
RB90	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Alder 187
RB96	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Retest of Douglas fir 130 (swab 1/2)
113A-5	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Air sample, stage 5, beneath Douglas fir 113
129A-1	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Air sample, stage 1, beneath Douglas fir 129
152A-1	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Air sample, stage 1, beneath alder 152
152A-2	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Air sample, stage 2, beneath alder 152
152A-3	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Air sample, stage 3, beneath alder 152
152A-4	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Air sample, stage 4, beneath alder 152
152A-5	B	VGIIa	VGII	6A	α^\dagger	RBPP	N/A	Air sample, stage 5, beneath alder 152
152A-6	B	VGIIb	VGII	6B	α^\dagger	RBPP	N/A	Air sample, stage 6, beneath alder 152
Additional global VGI and VGII isolates								
WM830	Not typed	VGI	Not typed	4	Not typed	Papua, New Guinea	Immunocompetent	Data not available
WM1009	Not typed	VGI	Not typed	4	Not typed	Mt. Druitt, Australia	N/A	<i>E. tereticornis</i> , larval frass
CBS7748	B	VGI	Not typed	4	Not typed	Balranald, Australia	N/A	<i>E. camaldulensis</i> , air in hollow
Ram2	B	VGII	Not typed	6B	Not typed	Arnhemland, Australia	N/A	<i>E. camaldulensis</i>
Ram5	B	VGII	Not typed	6	Not typed	Arnhemland	N/A	<i>E. tetradonta</i>
ARN1	B	VGII	Not typed	6	Not typed	Arnhemland	N/A	<i>E. camaldulensis</i>
WM1008	B	VGII	Not typed	6	α^\ddagger	Mt. Druitt	N/A	<i>E. tereticornis</i> , larval frass
ATCC32609 (= CBS6956 = NIH 444)	B	VGII	Not typed	6	α^\ddagger	Seattle, WA	Immunocompetent	Sputum
CBS7750	B	VGII	Not typed	6	α^\ddagger	San Francisco, CA	N/A	<i>E. camaldulensis</i> bark debris
NIH112	B	VGII	Not typed	6	α^\ddagger	CA	Data not available	Data not available

(= CBS6996 = ATCC24065)

NIH198 Not typed Not typed Not typed a[†] Data not available Data not available Data not available

RBPP, Rath Trevor Beach Provincial Park; MMP, MacMillan Park; CSF, cerebrospinal fluid; BAL, bronchoalveolar lavage. Hollows in the trees included holes, niches or scars. Composite swab refers to a single swab used in several different hollows of a single tree. Retests refer to repeated sampling of trees at different time points.

*Isolate did not meet the criteria to be considered part of the outbreak.

[†]Mating type determined by confrontation with tester strains.

[‡]Mating type previously determined by means of PCR method [Chaturvedi, S., Rodeghier, B., Fan, J., McClelland, C. M., Wickes, B. L. & Chaturvedi, V. (2000) *J. Clin. Microbiol.* **38**, 2007-2009].