

Isolate	Location	Year	Host cultivar	Host tissue	Thiophanate-methyl sensitivity <sup>a</sup>
02/01	Montividiu, Goias, Brazil	2001	ni <sup>b</sup>	Leaf	S
114/99	Londrina, Parana, Brazil	1999	ni	Stem	S
138/99	Balsas, Maranhao, Brazil	1999	PATI	Leaf	S
139/99	Balsas, Maranhao, Brazil	1999	PATI	Stem	S
140/99	Balsas, Maranhao, Brazil	1999	PATI	Pod	S
23/01	Brazil	2001	ni	Seed	S
23/98	Nova Mutum, Mato Grosso, Brazil	1998	ni	ni	S
40/01	Londrina, Parana, Brazil	2001	BRS 133	Stem	S
44/01	Sapezal, Mato Grosso, Brazil	2001	BR 95 3412	Leaf	S
77/96	Brazil	1996	ni	ni	S
87/97	Balsas, Maranhao, Brazil	ni	CARIRI RCH	Seed	S
88/01	Londrina, Parana, Brazil	2001	ni	Leaf	S
AC001	Marcos Juarez, Cordoba, Argentina	2004	A5777 RG	Seed	S
AC002	Marcos Juarez, Cordoba, Argentina	2004	A5777 RG	Seed	S
AC003	Marcos Juarez, Cordoba, Argentina	2004	A5777 RG	Seed	S
AC004	Marcos Juarez, Cordoba, Argentina	2004	A5777 RG	Seed	S
AC005	Marcos Juarez, Cordoba, Argentina	2004	A5777 RG	Seed	S
AC006	Marcos Juarez, Cordoba, Argentina	2004	A5777 RG	Seed	S
AC007	Marcos Juarez, Cordoba, Argentina	2004	RAR 703	Seed	S
AC008	Marcos Juarez, Cordoba, Argentina	2004	RAR 703	Seed	S
AC009	Marcos Juarez, Cordoba, Argentina	2004	RAR 703	Seed	S
AC010	Marcos Juarez, Cordoba, Argentina	2004	RAR 703	Seed	S
AC011	Marcos Juarez, Cordoba, Argentina	2004	RAR 703	Seed	S
AC012	Marcos Juarez, Cordoba, Argentina	2004	RAR 703	Seed	S
AC013	Marcos Juarez, Cordoba, Argentina	2004	RAR 703	Seed	S
AC014	Marcos Juarez, Cordoba, Argentina	2004	RAR 703	Seed	S
AC015	Marcos Juarez, Cordoba, Argentina	2004	RAR 703	Seed	S
AC016	Marcos Juarez, Cordoba, Argentina	2004	QUALIA RR	Seed	S
AC017	Marcos Juarez, Cordoba, Argentina	2004	QUALIA RR	Seed	S
AC018	Marcos Juarez, Cordoba, Argentina	2004	QUALIA RR	Seed	S
AC019	Marcos Juarez, Cordoba, Argentina	2004	A800 RG	Seed	S
AC020	Marcos Juarez, Cordoba, Argentina	2004	A800 RG	Seed	S
AC021	Marcos Juarez, Cordoba, Argentina	2004	A800 RG	Seed	S
AC022	Marcos Juarez, Cordoba, Argentina	2004	A800 RG	Seed	S
AC023	Marcos Juarez, Cordoba, Argentina	2004	A800 RG	Seed	S
AC024	Marcos Juarez, Cordoba, Argentina	2004	A800 RG	Seed	S
AC025	Marcos Juarez, Cordoba, Argentina	2004	DM5800 RR	Seed	S
AC026	Marcos Juarez, Cordoba, Argentina	2004	DM5800 RR	Seed	S
AC027	Marcos Juarez, Cordoba, Argentina	2004	DM5800 RR	Seed	S
AC028	Marcos Juarez, Cordoba, Argentina	2004	DM5800 RR	Seed	S
AC029	Marcos Juarez, Cordoba, Argentina	2004	DM5800 RR	Seed	S
AC030	Marcos Juarez, Cordoba, Argentina	2004	RAR 602	Seed	S
AC031	Marcos Juarez, Cordoba, Argentina	2004	RAR 602	Seed	S
AC032	Marcos Juarez, Cordoba, Argentina	2004	RAR 602	Seed	S
AC033	Marcos Juarez, Cordoba, Argentina	2004	RAR 602	Seed	S
AC034	Marcos Juarez, Cordoba, Argentina	2004	RAR 602	Seed	S
AC035	Marcos Juarez, Cordoba, Argentina	2004	A6445 RG	Seed	S
AC036	Marcos Juarez, Cordoba, Argentina	2004	A6445 RG	Seed	S
AC037	Marcos Juarez, Cordoba, Argentina	2004	A6445 RG	Seed	S
AC038	Marcos Juarez, Cordoba, Argentina	2004	A6445 RG	Seed	S
AC039	Marcos Juarez, Cordoba, Argentina	2004	A6445 RG	Seed	S
AC040	Marcos Juarez, Cordoba, Argentina	2004	A6445 RG	Seed	S
AC041	Marcos Juarez, Cordoba, Argentina	2004	MUNASQA RR	Seed	S
AC042	Marcos Juarez, Cordoba, Argentina	2004	MUNASQA RR	Seed	S
AC043	Marcos Juarez, Cordoba, Argentina	2004	MUNASQA RR	Seed	S
AC044	Marcos Juarez, Cordoba, Argentina	2004	MUNASQA RR	Seed	S
AC046	Marcos Juarez, Cordoba, Argentina	2004	RAFAELA 58 RR	Seed	S
AC047	Marcos Juarez, Cordoba, Argentina	2004	RAFAELA 58 RR	Seed	S
AC048	Marcos Juarez, Cordoba, Argentina	2004	RAFAELA 58 RR	Seed	S
AC049	Marcos Juarez, Cordoba, Argentina	2004	RAFAELA 58 RR	Seed	S
AC050	Marcos Juarez, Cordoba, Argentina	2004	RAFAELA 58 RR	Seed	S
AC051	Marcos Juarez, Cordoba, Argentina	2004	NUEVA MARIA RR	Seed	S
AC052	Marcos Juarez, Cordoba, Argentina	2004	NUEVA MARIA RR	Seed	S
AC053	Marcos Juarez, Cordoba, Argentina	2004	NUEVA MARIA RR	Seed	S
AC054	Marcos Juarez, Cordoba, Argentina	2004	NUEVA MARIA RR	Seed	S
AC055	Marcos Juarez, Cordoba, Argentina	2004	NUEVA MARIA RR	Seed	S
AC056	Marcos Juarez, Cordoba, Argentina	2004	NUEVA MARIA RR	Seed	S
AC057	Marcos Juarez, Cordoba, Argentina	2004	A6040 RG	Seed	S
AC058	Marcos Juarez, Cordoba, Argentina	2004	A6040 RG	Seed	S
AC059	Marcos Juarez, Cordoba, Argentina	2004	A6040 RG	Seed	S
AC060	Marcos Juarez, Cordoba, Argentina	2004	A6040 RG	Seed	S
AC061	Marcos Juarez, Cordoba, Argentina	2004	A6040 RG	Seed	S
AC062	Marcos Juarez, Cordoba, Argentina	2004	A6040 RG	Seed	S
AC063	Marcos Juarez, Cordoba, Argentina	2004	J024992	Seed	S
AC064	Marcos Juarez, Cordoba, Argentina	2004	J024992	Seed	S



AC144	Totoras, Santa Fe, Argentina	2004	TJ2055 RR	Seed	S
AC145	Totoras, Santa Fe, Argentina	2004	TJ2055 RR	Seed	S
AC146	Totoras, Santa Fe, Argentina	2004	TJ2055 RR	Seed	S
AC147	Totoras, Santa Fe, Argentina	2004	TJ2055 RR	Seed	S
AC148	Totoras, Santa Fe, Argentina	2004	TJ2055 RR	Seed	S
AC149	Totoras, Santa Fe, Argentina	2004	TJ2055 RR	Seed	S
03DSSJ	Chikusei, Ibaraki, Japan	2002	Tachinagaha	Seed	R
03DSSW	Furukawa, Ibaraki, Japan	2002	Tachinagaha	Seed	S
03DSYT	Yuki-gun, Ibaraki, Japan	2002	Tachinagaha	Seed	R
21S-1	Nishimatsuura-gun, Saga, Japan	2001	Fukuyutaka	Seed	S
21S-10	Saga-gun, Saga, Japan	2001	Fukuyutaka	Seed	S
21S-11	Saga-gun, Saga, Japan	2001	Fukuyutaka	Seed	S
21S-12	Saga-gun, Saga, Japan	2001	Fukuyutaka	Seed	S
21S-13	Saga-gun, Saga, Japan	2001	Fukuyutaka	Seed	S
21S-16	Saga-gun, Saga, Japan	2001	Fukuyutaka	Seed	S
21S-17	Saga-gun, Saga, Japan	2001	Fukuyutaka	Seed	S
21S-18	Karatsu, Saga, Japan	2001	Fukuyutaka	Seed	S
21-S2	Nishimatsuura-gun, Saga, Japan	2001	Fukuyutaka	Seed	S
21S-3	Nishimatsuura-gun, Saga, Japan	2001	Fukuyutaka	Seed	S
21S-5	Nishimatsuura-gun, Saga, Japan	2001	Fukuyutaka	Seed	S
21S-6	Nishimatsuura-gun, Saga, Japan	2001	Fukuyutaka	Seed	S
21S-7	Nishimatsuura-gun, Saga, Japan	2001	Fukuyutaka	Seed	S
21S-9	Nishimatsuura-gun, Saga, Japan	2001	Fukuyutaka	Seed	S
CTF4301	Tottori, Tottori, Japan	ni	Tamahomare	Seed	S
CTF4302	Tottori, Tottori, Japan	ni	Tamahomare	Seed	S
CTF4303	Tottori, Tottori, Japan	ni	Tamahomare	Seed	R
CTF4304	Tottori, Tottori, Japan	ni	Tamahomare	Seed	R
HY10-1	Hita, Oita, Japan	2001	Murayutaka	Seed	R
HY10-15	Hita, Oita, Japan	2001	Murayutaka	Seed	S
HY1-1	Takeda, Oita, Japan	2001	Fukuyutaka	Seed	S
HY11-1	Hita, Oita, Japan	2001	Murayutaka	Seed	R
HY1-4	Takeda, Oita, Japan	2001	Fukuyutaka	Seed	R
HY17-1	Usa, Oita, Japan	2001	Murayutaka	Seed	R
HY17-2	Usa, Oita, Japan	2001	Murayutaka	Seed	S
HY3-1	Higashikunisaki-gun, Oita, Japan	2001	Murayutaka	Seed	S
HY4-1J	Higashikunisaki-gun, Oita, Japan	2001	Murayutaka	Seed	R
HY4-3	Higashikunisaki-gun, Oita, Japan	2001	Murayutaka	Seed	S
JC023	Kuroishi, Aomori, Japan	2002	Osuzu	Seed	R
JC024	Kuroishi, Aomori, Japan	2002	Osuzu	Seed	R
JC025	Kuroishi, Aomori, Japan	2002	Osuzu	Seed	R
JC026	Kuroishi, Aomori, Japan	2002	Osuzu	Seed	R
JC027	Kuroishi, Aomori, Japan	2002	Osuzu	Seed	R
JC028	Kuroishi, Aomori, Japan	2002	Osuzu	Seed	R
JC029	Kuroishi, Aomori, Japan	2002	Osuzu	Seed	R
JC030	Kuroishi, Aomori, Japan	2002	Aomori-fukumaruru	Seed	R
JC031	Kuroishi, Aomori, Japan	2002	Aomori-fukumaruru	Seed	R
JC032	Kuroishi, Aomori, Japan	2002	Aomori-fukumaruru	Seed	R
JC033	Kuroishi, Aomori, Japan	2002	Aomori-fukumaruru	Seed	R
JC034	Kuroishi, Aomori, Japan	2002	Aomori-fukumaruru	Seed	R
JC035	Hirosaki, Aomori, Japan	2002	Okushirome	Seed	R
JC036	Hirosaki, Aomori, Japan	2002	Tohoku 146	Seed	R
JC037	Hirosaki, Aomori, Japan	2002	Tohoku 146	Seed	R
JC038	Hirosaki, Aomori, Japan	2002	Tohoku 146	Seed	S
JC040	Hirosaki, Aomori, Japan	2002	Tohoku 146	Seed	R
JC041	Hirosaki, Aomori, Japan	2002	Tohoku 146	Seed	R
JC042	Hirosaki, Aomori, Japan	2002	Suzunone	Seed	S
JC043	Hirosaki, Aomori, Japan	2002	Suzunone	Seed	S
JC044	Hirosaki, Aomori, Japan	2002	Suzunone	Seed	S
JC045	Hirosaki, Aomori, Japan	2002	Suzunone	Seed	R
JC046	Hirosaki, Aomori, Japan	2002	Suzunone	Seed	S
JC047	Kitagami, Iwate, Japan	2001	Suzukari	Seed	S
JC048	Kitagami, Iwate, Japan	2001	Suzukari	Seed	S
JC049	Kitagami, Iwate, Japan	2001	Suzukari	Seed	S
JC050	Kitagami, Iwate, Japan	2001	Suzukari	Seed	S
JC051	Kitagami, Iwate, Japan	2002	Suzukari	Seed	S
JC052	Kitagami, Iwate, Japan	2002	Suzukari	Seed	S
JC053	Kitagami, Iwate, Japan	2002	Suzukari	Seed	S
JC054	Kitagami, Iwate, Japan	2002	Suzukari	Seed	S
JC055	Kitagami, Iwate, Japan	2002	Suzukari	Seed	S
JC056	Kitagami, Iwate, Japan	2002	Suzukari	Seed	R
JC057	Kitagami, Iwate, Japan	2002	Wasesuzunari	Seed	S
JC058	Kitagami, Iwate, Japan	2002	Wasesuzunari	Seed	S
JC059	Kitagami, Iwate, Japan	2002	Wasesuzunari	Seed	S
JC060	Kitagami, Iwate, Japan	2002	Wasesuzunari	Seed	S
JC061	Tome, Miyagi, Japan	2001	Tanrei	Seed	R
JC062	Tome, Miyagi, Japan	2001	Tanrei	Seed	R
JC063	Daisen, Akita, Japan	2001	Ryuhou	Seed	R
JC064	Daisen, Akita, Japan	2001	Ryuhou	Seed	R
JC065	Daisen, Akita, Japan	2001	Ryuhou	Seed	R

JC066	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC067	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC068	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC069	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC070	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC071	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC072	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC073	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC074	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC075	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC076	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC077	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC078	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC079	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC080	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC081	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC082	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC083	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC084	Daisen, Akita, Japan	2002	Ryuhō	Seed	S
JC085	Daisen, Akita, Japan	2001	Ryuhō	Seed	S
JC086	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC087	Daisen, Akita, Japan	2001	Ryuhō	Seed	R
JC088	Daisen, Akita, Japan	ni	Ryuhō	Seed	R
JC089	Murayama, Yamagata, Japan	ni	Tachiyutaka	Seed	R
JC090	Murayama, Yamagata, Japan	ni	Tachiyutaka	Seed	R
JC091	Murayama, Yamagata, Japan	ni	Tachiyutaka	Seed	R
JC092	Tsuruoka, Yamagata, Japan	ni	Ryuhō	Seed	S
JC093	Tsuruoka, Yamagata, Japan	ni	Ryuhō	Seed	R
JC094	Tsuruoka, Yamagata, Japan	ni	Ryuhō	Seed	R
JC095	Tsuruoka, Yamagata, Japan	ni	Ryuhō	Seed	R
JC096	Higashitagawa-gun, Yamagata, Japan	ni	ni	Seed	S
JC097	Yamagata, Yamagata, Japan	ni	ni	Seed	R
JC101	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC102	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC103	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC104	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC105	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC106	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC107	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC108	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC109	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC110	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC111	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC112	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC113	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC114	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC115	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC116	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC117	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC119	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC120	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC121	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	S
JC122	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC123	Tsukubamirai, Ibaraki, Japan	2003	Tachinagaha	Seed	R
JC124	Kumagaya, Saitama, Japan	2002	Tachinagaha	Seed	S
JC125	Kumagaya, Saitama, Japan	2002	Tachinagaha	Seed	S
JC162	Toyama, Toyama, Japan	2002	Enrei	Seed	R
JC163	Toyama, Toyama, Japan	2002	Enrei	Seed	S
JC164	Toyama, Toyama, Japan	2002	Enrei	Seed	S
JC165	Toyama, Toyama, Japan	2002	Enrei	Seed	S
JC166	Shiojiri, Nagano, Japan	2002	Enrei	Seed	R
JC167	Shiojiri, Nagano, Japan	2002	Enrei	Seed	R
JC172	Tottori, Tottori, Japan	2002	Tamahomare	Seed	R
JC173	Tottori, Tottori, Japan	2002	Tamahomare	Seed	R
JC174	Tottori, Tottori, Japan	2002	Tamahomare	Seed	R
JC175	Tottori, Tottori, Japan	2002	Tamahomare	Seed	R
JC176	Tottori, Tottori, Japan	2002	Tamahomare	Seed	R
JC177	Tottori, Tottori, Japan	2002	Tamahomare	Seed	R
JC178	Tottori, Tottori, Japan	2002	Tamahomare	Seed	R
JC179	Tottori, Tottori, Japan	2002	Tamahomare	Seed	R
JC180	Tottori, Tottori, Japan	2002	Tamahomare	Seed	R
JC181	Tottori, Tottori, Japan	2002	Tamahomare	Seed	R
JC182	Tottori, Tottori, Japan	2002	Tamahomare	Seed	R
JC183	Tottori, Tottori, Japan	2002	Tamahomare	Seed	R
JC184	Tottori, Tottori, Japan	2002	Tamahomare	Seed	R
JC185	Tottori, Tottori, Japan	2002	Tamahomare	Seed	R
JC186	Tottori, Tottori, Japan	2002	Tamahomare	Seed	R
JC187	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC188	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R

JC189	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC190	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC191	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC192	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC193	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC194	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC195	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC196	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC197	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC198	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC199	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC200	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC201	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC202	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC203	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC204	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC205	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC206	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC207	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC208	Akaiwa, Okayama, Japan	2002	Aodaizu	Seed	R
JC209	Imabari, Ehime, Japan	2001	Tamahomare	Seed	S
JC210	Imabari, Ehime, Japan	2001	Tamahomare	Seed	S
JC211	Imabari, Ehime, Japan	2001	Tamahomare	Seed	S
JC212	Imabari, Ehime, Japan	2001	Tamahomare	Seed	S
JC213	Imabari, Ehime, Japan	2001	Tamahomare	Seed	S
JC214	Saijo, Ehime, Japan	2003	Tamahomare	Seed	R
JC215	Saijo, Ehime, Japan	2003	Tamahomare	Seed	R
JC216	Saijo, Ehime, Japan	2003	Tamahomare	Seed	S
JC217	Saijo, Ehime, Japan	2003	Tamahomare	Seed	S
JC218	Saijo, Ehime, Japan	2003	Tamahomare	Seed	R
JC219	Saijo, Ehime, Japan	2003	Tamahomare	Seed	R
JC220	Saijo, Ehime, Japan	2003	Tamahomare	Seed	R
JC221	Saijo, Ehime, Japan	2003	Tamahomare	Seed	S
JC222	Saijo, Ehime, Japan	2003	Tamahomare	Seed	S
JC223	Saijo, Ehime, Japan	2003	Tamahomare	Seed	S
S211	Niigata, Niigata, Japan	2002	Enrei	Seed	S
S151	Iwafune-gun, Niigata, Japan	2002	Enrei	Seed	R
S161	Murakami, Niigata, Japan	2002	Enrei	Seed	S
S171	Iwafune-gun, Niigata, Japan	2002	Enrei	Seed	S
S181	Niigata, Niigata, Japan	2002	Enrei	Seed	S
S191	Agano, Niigata, Japan	2002	Enrei	Seed	S
S201	Agano, Niigata, Japan	2002	Enrei	Seed	R
S221	Niigata, Niigata, Japan	2002	Enrei	Seed	S
S231	Niigata, Niigata, Japan	2002	Enrei	Seed	S
S241	Niigata, Niigata, Japan	2002	Enrei	Seed	R
S251	Shintsubame, Niigata, Japan	2002	Enrei	Seed	S
S261	Niigata, Niigata, Japan	2002	Enrei	Seed	S
S271	Shintsubame, Niigata, Japan	2002	Enrei	Seed	R
S281	Kamo, Niigata, Japan	2002	Enrei	Seed	S
S291	Nagaoka, Niigata, Japan	2002	Enrei	Seed	S
S301	Sanjo, Niigata, Japan	2002	Enrei	Seed	S
S311	Niigata, Niigata, Japan	2002	Enrei	Seed	S
S321	Mitsuke, Niigata, Japan	2002	Enrei	Seed	S
S331	Tagami, Niigata, Japan	2002	Enrei	Seed	S
S341	Nagaoka, Niigata, Japan	2002	Enrei	Seed	R
S351	Nagaoka, Niigata, Japan	2002	Enrei	Seed	R
S361	Nagaoka, Niigata, Japan	2002	Enrei	Seed	S
S371	Nagaoka, Niigata, Japan	2002	Enrei	Seed	S
S381	Ojiya, Niigata, Japan	2002	Enrei	Seed	S
S391	Nagaoka, Niigata, Japan	2002	Enrei	Seed	R
S401	Joetsu, Niigata, Japan	2002	Enrei	Seed	R
S411	Joetsu, Niigata, Japan	2002	Enrei	Seed	S
S421	Joetsu, Niigata, Japan	2002	Enrei	Seed	R
S431	Myoko, Niigata, Japan	2002	Enrei	Seed	R
S441	Sado, Niigata, Japan	2002	Enrei	Seed	R
S451	Tokamachi, Niigata, Japan	2002	Enrei	Seed	R
S461	Joetsu, Niigata, Japan	2002	Enrei	Seed	R
S471	Nakuonuma-gun, Niigata, Japan	2002	Enrei	Seed	S
S481	Minamiuonuma, Niigata, Japan	2002	Enrei	Seed	S
S491	Uonuma, Niigata, Japan	2002	Enrei	Seed	S
S501	Joetsu, Niigata, Japan	2002	Enrei	Seed	S
TI1	Kuroishi, Aomori, Japan	2001	Osuzu	Seed	R
TI11	Hirosaki, Aomori, Japan	2002	Tohoku 146	Seed	R
TI12	Hirosaki, Aomori, Japan	2002	Tohoku 146	Seed	S
TI13	Hirosaki, Aomori, Japan	2002	Okushirome	Seed	R
TI14	Hirosaki, Aomori, Japan	2002	Okushirome	Seed	S
TI16	Gosyogawara, Aomori, Japan	2002	Osuzu	Seed	S
TI19	Nishitsugaru-gun, Aomori, Japan	2002	Osuzu	Seed	S
TI2	Hirosaki, Aomori, Japan	2001	Okushirome	Seed	R

TI20	Minamitsugaru-gun, Aomori, Japan	2002	Osuzu	Seed	R
TI21	Hirakawa, Aomori, Japan	2002	Osuzu	Seed	R
TI22	Nishitsugaru-gun, Aomori, Japan	2002	Osuzu	Seed	R
TI23	Higashitsugaru-gun, Aomori, Japan	2002	Osuzu	Seed	S
TI24	Sannohe-gun, Aomori, Japan	2002	Osuzu	Seed	S
TI25	Sannohe-gun, Aomori, Japan	2002	Osuzu	Seed	S
TI26	Hachinohe, Aomori, Japan	2002	Osuzu	Seed	S
TI27	Kamikita-gun, Aomori, Japan	2002	Osuzu	Seed	S
TI3	Gosyogawara, Aomori, Japan	2001	Okushirome	Seed	R
TI4	Takko, Aomori, Japan	2001	Osuzu	Seed	R
TI5	Kuroishi, Aomori, Japan	2002	Osuzu	Seed	R
TI6	Kuroishi, Aomori, Japan	2002	Aomori-fukumaru	Seed	R
TI8	Hirosaki, Aomori, Japan	2002	Osuzu	Seed	S
TI9	Hirosaki, Aomori, Japan	2002	Suzunone	Seed	R

<sup>a</sup> S = sensitive to thiophanate-methyl, R = resistant to thiophanate-methyl.

<sup>b</sup> ni = not identified.