

Supplementary Table 1. *Botryosphaeria* isolates used in this study

No.	Isolated year	Strain name	Isolation source	Region
1	2005	05-305	Apple trunk	Gyeongbuk
2	2005	05-323	Apple trunk	Chungbuk
3	2006	06-381	Apple trunk	Gyeongbuk
4	2006	06-403	Apple trunk	Chungnam
5	2006	06-422	Apple trunk	Chungnam
6	2006	06-457	Apple trunk	Chungbuk
7	2006	06-458	Apple trunk	Chungbuk
8	2006	06-481	Apple trunk	Chungbuk
9	2009	09-269	Apple trunk	Jeonbuk
10	2012	12-281	Apple trunk	Gyeongbuk
11	2013	13-204	Apple trunk	Jeonbuk
12	2014	14-191	Apple trunk	Gangwon
13	2015	15-038	Apple trunk	Gyeonggi
14	2016	16-239	Apple trunk	Gyeongbuk
15	2016	16-389	Apple trunk	Jeonbuk
16	2016	16-390	Apple trunk	Jeonbuk
17	2016	16-500	Apple trunk	Gangwon
18	2016	16-501	Apple trunk	Gangwon
19	2016	16-503	Apple trunk	Jeonbuk
20	2017	17-040	Apple trunk	Jeonbuk
21	2017	17-041	Apple trunk	Jeonbuk
22	2017	17-434	Apple trunk	Gangwon
23	2017	17-536	Apple trunk	Jeonbuk
24	2018	18-447	Apple trunk	Jeonbuk
25	2018	18-449	Apple trunk	Jeonbuk
26	2018	18-450	Apple trunk	Jeonbuk
27	2018	18-451	Apple trunk	Jeonbuk
28	2018	18-495	Apple fruit	Gyeongbuk
29	2018	18-560	Apple fruit	Gyeongbuk
30	2018	18-561	Apple fruit	Gyeongbuk
31	2019	19-158	Apple fruit	Gyeongnam
32	2019	19-159	Apple fruit	Gyeongnam
33	2019	19-165	Apple fruit	Jeonbuk
34	2019	19-213	Apple fruit	Gyeongnam
35	2019	19-301	Apple fruit	Jeonbuk

Supplementary Table 1. Continued

No.	Isolated year	Strain name	Isolation source	Region
36	2019	19-357	Apple fruit	Gyeongbuk
37	2019	19-359	Apple fruit	Gyeongbuk
38	2019	19-360	Apple fruit	Gyeongbuk
39	2019	19-361	Apple fruit	Gyeongbuk
40	2019	19-455	Apple fruit	Jeonbuk
41	2019	19-456	Apple fruit	Jeonbuk
42	2020	20-GC72	Apple trunk	Gyeongnam
43	2020	20-HC14	Apple trunk	Gangwon
44	2020	20-MG76	Apple trunk	Gyeongbuk
45	2020	20-MJ43	Apple trunk	Jeonbuk
46	2020	20-YC53	Apple trunk	Gyeongbuk
47	2020	20-MJ33	Apple trunk	Jeonbuk
48	2020	20-BY21	Apple trunk	Chungbuk
49	2020	20-YC54	Apple trunk	Gyeongbuk
50	2020	20-HC15	Apple trunk	Gangwon
51	2020	20-YC56	Apple trunk	Gyeongbuk
52	2020	20-BY22	Apple trunk	Chungbuk
53	2020	20-HY99	Apple trunk	Gyeongnam
54	2020	20-MG108	Apple trunk	Gyeongbuk
55	2020	20-BY25	Apple trunk	Chungbuk
56	2020	20-GC71	Apple trunk	Gyeongnam
57	2020	20-HC78	Apple trunk	Gangwon
58	2020	20-MG101	Apple trunk	Gyeongbuk
59	2020	20-HC13	Apple trunk	Gangwon
60	2020	20-MG92	Apple trunk	Gyeongbuk
61	2020	20-MG90	Apple trunk	Gyeongbuk
62	2020	20-HY97	Apple trunk	Gyeongnam
63	2020	20-MG105	Apple trunk	Gyeongbuk
64	2020	20-MG115	Apple trunk	Gyeongbuk
65	2020	20-MG102	Apple trunk	Gyeongbuk
66	2020	20-YC55	Apple trunk	Gyeongbuk
67	2020	20-MG77	Apple trunk	Gyeongbuk
68	2020	20-HC12	Apple trunk	Gangwon
69	2020	20-HY11	Apple trunk	Gyeongnam
70	2020	20-BY29	Apple trunk	Chungbuk

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No.	Isolated year	Strain name	Isolation source	Region
71	2020	20-BY28	Apple trunk	Chungbuk
72	2020	20-BY27	Apple trunk	Chungbuk
73	2020	20-PC68	Apple trunk	Gangwon
74	2020	20-PC66	Apple trunk	Gangwon
75	2020	20-PC69	Apple trunk	Gangwon
76	2021	21-MJ81	Apple trunk	Jeonbuk
77	2021	21-CS29	Apple trunk	Gyeongbuk
78	2021	21-MJ82	Apple trunk	Jeonbuk
79	2021	21-BY21	Apple trunk	Chungbuk
80	2021	21-HC161	Apple trunk	Gangwon
81	2021	21-CS261	Apple trunk	Gyeongbuk
82	2021	21-MG261	Apple trunk	Gyeongbuk
83	2021	21-BY301	Apple trunk	Chungbuk
84	2021	21-MJ27	Apple trunk	Jeonbuk
85	2021	21-GS5	Apple trunk	Gyeongbuk
86	2021	21-BY231	Apple trunk	Chungbuk
87	2021	21-MG262	Apple trunk	Gyeongbuk
88	2021	21-MG14	Apple trunk	Gyeongbuk
89	2021	21-PJ7	Apple trunk	Gyeonggi
90	2021	21-BY302	Apple trunk	Chungbuk
91	2021	21-BY303	Apple trunk	Chungbuk
92	2021	21-CS262	Apple trunk	Gyeongbuk
93	2021	21-BY4	Apple trunk	Chungbuk
94	2021	21-YS20	Apple trunk	Chungnam
95	2021	21-MJ25	Apple trunk	Gyeongbuk
96	2021	21-HC162	Apple trunk	Gangwon
97	2021	21-BY31	Apple trunk	Chungbuk
98	2021	21-BY32	Apple trunk	Chungbuk
99	2021	21-MJ17	Apple trunk	Jeonbuk
100	2021	21-MG19	Apple trunk	Gyeongbuk
101	2021	21-MJ83	Apple trunk	Jeonbuk
102	2021	21-BY232	Apple trunk	Chungbuk
103	2021	21-GY4	Apple fruit	Gyeongbuk
104	2021	21-YC8	Apple fruit	Gyeongbuk
105	2022	22-MJ251	Apple trunk	Jeonbuk

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No.	Isolated year	Strain name	Isolation source	Region
106	2022	22-MG32	Apple trunk	Gyeongbuk
107	2022	22-CS7	Apple trunk	Gyeongbuk
108	2022	22-MJ412	Apple trunk	Jeonbuk
109	2022	22-MG31	Apple trunk	Gyeongbuk
110	2022	22-GS62	Apple trunk	Gyeongbuk
111	2022	22-MJ42	Apple trunk	Jeonbuk
112	2022	22-MJ122	Apple trunk	Jeonbuk
113	2022	22-GS11	Apple trunk	Gyeongbuk
114	2022	22-MJ411	Apple trunk	Jeonbuk
115	2022	22-GS21	Apple trunk	Gyeongbuk
116	2022	22-GS202	Apple trunk	Gyeongbuk
117	2022	22-MJ121	Apple trunk	Jeonbuk
118	2022	22-MJ15	Apple trunk	Jeonbuk
119	2022	22-MJ10	Apple trunk	Jeonbuk
120	2022	22-GS201	Apple trunk	Gyeongbuk
121	2022	22-CS18	Apple trunk	Gyeongbuk
122	2022	22-GS13	Apple trunk	Gyeongbuk
123	2022	22-MJ5	Apple trunk	Jeonbuk
124	2022	22-MJ161	Apple trunk	Jeonbuk
125	2022	22-GS11	Apple trunk	Gyeongbuk
126	2022	22-GS61	Apple trunk	Gyeongbuk
127	2022	22-GS272	Apple trunk	Gyeongbuk
128	2022	22-GS271	Apple trunk	Gyeongbuk
129	2022	22-CS262	Apple trunk	Gyeongbuk
130	2022	22-UC222	Apple trunk	Gyeongbuk
131	2022	22-UC221	Apple trunk	Gyeongbuk
132	2022	22-YC1	Apple trunk	Gyeongbuk
133	2022	22-CS244	Apple trunk	Gyeongbuk
134	2022	22-CS243	Apple trunk	Gyeongbuk
135	2022	22-CS242	Apple trunk	Gyeongbuk
136	2022	22-MJ252	Apple trunk	Jeonbuk
137	2022	22-CS241	Apple trunk	Gyeongbuk
138	2022	22-CS261	Apple trunk	Gyeongbuk
139	2022	22-GS232	Apple trunk	Gyeongbuk
140	2022	22-GS231	Apple trunk	Gyeongbuk

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No.	Isolated year	Strain name	Isolation source	Region
141	2022	GsGwBD22-1-1	Apple trunk	Gyeongbuk
142	2022	GsGwBD22-2-1	Apple trunk	Gyeongbuk
143	2022	GsGcBD22-1-1	Apple trunk	Gyeongnam
144	2022	GsYjBD22-2-1	Apple trunk	Gyeongbuk
145	2022	GsYjBD22-3-1	Apple trunk	Gyeongbuk
146	2022	GsYcBD22-1-1	Apple trunk	Gyeongbuk
147	2022	GsYcBD22-2-1	Apple trunk	Gyeongbuk
148	2022	GsYcBD22-4-1	Apple trunk	Gyeongbuk
149	2022	GsUsBD22-1-8	Apple trunk	Gyeongbuk
150	2022	GsUsBD22-2-1	Apple trunk	Gyeongbuk
151	2022	GsUsBD22-3-1	Apple fruit	Gyeongbuk
152	2022	GsCsBD22-1-1	Apple trunk	Gyeongbuk
153	2022	GsGcBD22-2-1	Apple trunk	Gyeongnam
154	2022	GsGcBD22-3-8	Apple trunk	Gyeongnam
155	2022	GsCsBD22-1-1	Apple trunk	Gyeongbuk
156	2022	GsCsBD22-2-1	Apple trunk	Gyeongbuk
157	2022	GsCsBD22-3-4	Apple trunk	Gyeongbuk
158	2022	GsYnBD22-1-1	Apple trunk	Gyeongbuk
159	2022	GsUsBD22-3-1	Apple fruit	Gyeongbuk
160	2022	GsYjBD22-1-1	Apple fruit	Gyeongbuk
161	2022	GsYjBD22-3-1	Apple trunk	Gyeongbuk
162	2022	GsYnBD22-2-2	Apple trunk	Gyeongbuk
163	2022	GsGjBD22-1-1	Apple fruit	Gyeongbuk
164	2022	CcCjBD22-1-8	Apple fruit	Chungbuk
165	2022	CcCjBD22-2-8	Apple fruit	Chungbuk
166	2022	CcCjBD22-3-1	Apple fruit	Chungbuk
167	2022	CcGsBD22-1-1	Apple fruit	Chungbuk
168	2022	CcJcBD22-1-1	Apple fruit	Chungbuk
169	2022	CcGsBD22-3-1	Apple fruit	Chungbuk
170	2022	CcYdBD22-1-1	Apple fruit	Chungbuk
171	2022	CcYdBD22-2-1	Apple fruit	Chungbuk
172	2022	CcYdBD22-3-1	Apple fruit	Chungbuk
173	2022	CcBeBD22-1-1	Apple fruit	Chungbuk
174	2022	CcBeBD22-2-1	Apple fruit	Chungbuk
175	2022	CcBeBD22-3-1	Apple fruit	Chungbuk

Supplementary Table 1. Continued

No.	Isolated year	Strain name	Isolation source	Region
176	2022	CcCjBD22-4-1	Apple fruit	Chungbuk
177	2022	CcGsBD22-2-1	Apple fruit	Chungbuk
178	2022	CcJcBD22-2-1	Apple fruit	Chungbuk
179	2022	CcJcBD22-3-1	Apple fruit	Chungbuk
180	2022	CcYsBD22-2-1	Apple fruit	Chungnam
181	2022	CcYsBD22-3-1	Apple fruit	Chungnam
182	2022	JlJaBD22-1-1	Apple fruit	Jeonbuk
183	2022	JlJaBD22-2-1	Apple fruit	Jeonbuk
184	2022	JlJaBD22-3-1	Apple fruit	Jeonbuk
185	2022	JlNwBD22-2-1	Apple fruit	Jeonbuk
186	2022	JlJeBD22-2-1	Apple fruit	Jeonbuk
187	2022	JlJeBD22-3-1	Apple fruit	Jeonbuk
188	2022	JlNwBD22-1-1	Apple fruit	Jeonbuk
189	2022	JlMjBD22-2-1	Apple fruit	Jeonbuk
190	2022	JlNwBD22-3-1	Apple fruit	Jeonbuk
191	2022	JlJsBD22-1-1	Apple fruit	Jeonnam
192	2022	JlJsBD22-2-1	Apple fruit	Jeonnam
193	2022	JlJsBD22-3-1	Apple fruit	Jeonnam
194	2022	JlMjBD22-1-1	Apple fruit	Jeonbuk
195	2022	JlMjBD22-2-1	Apple fruit	Jeonbuk
196	2022	JlJsBD22-3-1	Apple fruit	Jeonnam
197	2022	JlJuBD22-1-1	Apple fruit	Jeonbuk
198	2022	JlJuBD22-1-2	Apple fruit	Jeonbuk
199	2022	JlJuBD22-1-3	Apple fruit	Jeonbuk
200	2022	GgHsBD22-1-1	Apple fruit	Gyeonggi
201	2022	GgHsBD22-2-1	Apple fruit	Gyeonggi
202	2022	GgPjBD22-1-1	Apple fruit	Gyeonggi
203	2022	GgPjBD22-2-1	Apple fruit	Gyeonggi
204	2022	GgPjBD22-3-1	Apple fruit	Gyeonggi
205	2022	GgPcBD22-1-1	Apple fruit	Gyeonggi
206	2022	GgYnBD22-2-1	Apple fruit	Gyeonggi
207	2022	GgHsBD22-1-1	Apple fruit	Gyeonggi
208	2022	GgIcBD22-1-1	Apple fruit	Gyeonggi
209	2022	GgIcBD22-2-1	Apple fruit	Gyeonggi
210	2022	GgIcBD22-3-1	Apple fruit	Gyeonggi

Supplementary Table 1. Continued

No.	Isolated year	Strain name	Isolation source	Region
211	2022	GgGpBD22-1-1	Apple fruit	Gyeonggi
212	2022	GgPcBD22-2-1	Apple fruit	Gyeonggi
213	2022	GgPcBD22-3-1	Apple fruit	Gyeonggi
214	2022	GgYnBD22-1-1	Apple fruit	Gyeonggi
215	2022	GgYnBD22-3-1	Apple fruit	Gyeonggi
216	2022	GgGpBD22-2-1	Apple fruit	Gyeonggi
217	2022	GgGpBD22-3-1	Apple fruit	Gyeonggi
218	2022	GwHcBD22-1-1	Apple fruit	Gangwon
219	2022	GwHcBD22-2-1	Apple fruit	Gangwon
220	2022	GwHcBD22-3-8	Apple trunk	Gangwon
221	2022	GwYgBD22-1-1	Apple fruit	Gangwon
222	2022	GwYgBD22-2-1	Apple fruit	Gangwon
223	2022	GwYgBD22-3-1	Apple fruit	Gangwon
224	2022	GwYwBD22-2-1	Apple fruit	Gangwon
225	2022	GwYwBD22-2-1	Apple fruit	Gangwon
226	2022	GwYwBD22-3-1	Apple fruit	Gangwon
227	2022	GwHwBD22-4-1	Apple fruit	Gangwon
228	2022	GwJsBD22-1-1	Apple fruit	Gangwon
229	2022	GwJsBD22-3-1	Apple fruit	Gangwon
230	2022	GwJsBD22-2-1	Apple trunk	Gangwon
231	2022	GwCwBD22-2-1	Apple fruit	Gangwon
232	2022	GwCwDB22-3-1	Apple fruit	Gangwon
233	2022	GwHwBD22-1-1	Apple fruit	Gangwon
234	2022	GwHwBD22-2-1	Apple fruit	Gangwon
235	2022	GwHwBD22-3-1	Apple fruit	Gangwon
236	2022	GwCwBD22-1-1	Apple fruit	Gangwon
237	2022	GwCcBD22-1-1	Apple fruit	Gangwon
238	2022	GwYwBD22-1-1	Apple fruit	Gangwon