

Table S1. Entomopathogenic fungal isolates used in the experiment.

No. of isolate	Identification	No. of isolate	Identification	No. of isolate	Identification	No. of isolate	Identification
1	<i>Simplicillium aogashimaense</i>	112	<i>Metarhizium anisopliae</i>	223	<i>Cordyceps farinosa</i>	327	<i>Beauveria bassiana</i>
2	<i>Beauveria bassiana</i>	113	<i>Beauveria bassiana</i>	224	<i>Cordyceps fumosorosea</i>	328	<i>Beauveria bassiana</i>
3	<i>Beauveria brongniartii</i>	114	<i>Beauveria bassiana</i>	225	<i>Metarhizium lepidotae</i>	329	<i>Metarhizium anisopliae</i>
4	<i>Tolypocladium album</i>	115	<i>Cordyceps farinosa</i>	226	<i>Pochonia bulbillosa</i>	330	<i>Metarhizium anisopliae</i>
5	<i>Beauveria bassiana</i>	117	<i>Pochonia bulbillosa</i>	227	<i>Paraconiothyrium sporulosum</i>	331	<i>Beauveria bassiana</i>
6	<i>Bionectria ochroleuca</i>	119	<i>Tolypocladium album</i>	228	<i>Metarhizium pemphigus</i>	332	<i>Beauveria bassiana</i>
7	<i>Beauveria bassiana</i>	120	<i>Metarhizium anisopliae</i>	229	<i>Beauveria bassiana</i>	333	<i>Metarhizium pemphigus</i>
8	<i>Tolypocladium album</i>	121	<i>Cordyceps farinosa</i>	230	<i>Beauveria bassiana</i>	334	<i>Beauveria bassiana</i>
9	<i>Beauveria bassiana</i>	123	<i>Tolypocladium album</i>	231	<i>Metarhizium anisopliae</i>	335	<i>Beauveria bassiana</i>
10	<i>Beauveria bassiana</i>	124	<i>Metarhizium anisopliae</i>	232	<i>Cordyceps javanica</i>	336	<i>Beauveria bassiana</i>
12	<i>Beauveria brongniartii</i>	125	<i>Metarhizium anisopliae</i>	233	<i>Cordyceps javanica</i>	337	<i>Beauveria bassiana</i>
13	<i>Beauveria brongniartii</i>	126	<i>Metarhizium anisopliae</i>	234	<i>Beauveria cf. bassiana</i>	338	<i>Beauveria bassiana</i>
14	<i>Pochonia rubescens</i>	127	<i>Paecilomyces lilacinus</i>	235	<i>Cordyceps javanica</i>	339	<i>Aspergillus versicolor</i>
15	<i>Tolypocladium cylindrosporum</i>	128	<i>Metarhizium anisopliae</i>	236	<i>Bionectria ochroleuca</i>	340	<i>Beauveria bassiana</i>
16	<i>Beauveria bassiana</i>	129	<i>Metarhizium anisopliae</i>	237	<i>Tolypocladium cylindrosporum</i>	341	<i>Beauveria bassiana</i>
17	<i>Beauveria bassiana</i>	130	<i>Beauveria bassiana</i>	238	<i>Metarhizium pemphigus</i>	342	<i>Metarhizium anisopliae</i>
18	<i>Cordyceps javanica</i>	131	<i>Paecilomyces lilacinus</i>	239	<i>Beauveria bassiana</i>	343	<i>Cordyceps javanica</i>
19	<i>Beauveria bassiana</i>	132	<i>Cordyceps javanica</i>	240	<i>Beauveria bassiana</i>	344	<i>Paecilomyces lilacinus</i>
20	<i>Beauveria bassiana</i>	133	<i>Beauveria bassiana</i>	241	<i>Bionectria ochroleuca</i>	345	<i>Aspergillus versicolor</i>
22	<i>Tolypocladium album</i>	134	<i>Metarhizium anisopliae</i>	242	<i>Lecanicillium sp.</i>	346	<i>Beauveria bassiana</i>
23	<i>Beauveria bassiana</i>	135	<i>Beauveria bassiana</i>	243	<i>Beauveria bassiana</i>	347	<i>Paecilomyces lilacinus</i>
24	<i>Paraconiothyrium sporulosum</i>	136	<i>Cordyceps javanica</i>	244	<i>Pochonia bulbillosa</i>	348	<i>Beauveria bassiana</i>
25	<i>Beauveria bassiana</i>	137	<i>Metarhizium anisopliae</i>	245	<i>Tolypocladium album</i>	349	<i>Metarhizium anisopliae</i>
26	<i>Beauveria bassiana</i>	138	<i>Metarhizium pemphigus</i>	246	<i>Metarhizium anisopliae</i>	350	<i>Bionectria ochroleuca</i>
27	<i>Beauveria bassiana</i>	139	<i>Metarhizium anisopliae</i>	247	<i>Beauveria bassiana</i>	351	<i>Beauveria bassiana</i>
28	<i>Paecilomyces lilacinus</i>	140	<i>Beauveria brongniartii</i>	249	<i>Beauveria bassiana</i>	352	<i>Clonostachys rosea</i>
29	<i>Beauveria bassiana</i>	142	<i>Myrothecium sp.</i>	250	<i>Tolypocladium cylindrosporum</i>	353	<i>Beauveria bassiana</i>
30	<i>Cordyceps javanica</i>	143	<i>Aspergillus lentulus</i>	251	<i>Metarhizium anisopliae</i>	354	<i>Beauveria bassiana</i>
31	<i>Fusarium oxysporum</i>	144	<i>Metarhizium anisopliae</i>	252	<i>Beauveria bassiana</i>	355	<i>Mucoromycotina sp.</i>
32	<i>Pochonia bulbillosa</i>	145	<i>Beauveria bassiana</i>	253	<i>Beauveria bassiana</i>	356	<i>Paecilomyces lilacinus</i>
33	<i>Pochonia bulbillosa</i>	146	<i>Beauveria bassiana</i>	254	<i>Beauveria brongniartii</i>	357	<i>Pochonia bulbillosa</i>
34	<i>Pochonia bulbillosa</i>	148	<i>Cordyceps farinosa</i>	255	<i>Beauveria bassiana</i>	358	<i>Beauveria bassiana</i>

35	<i>Beauveria bassiana</i>	149	<i>Beauveria bassiana</i>	257	<i>Metarhizium anisopliae</i>	359	<i>Beauveria brongniartii</i>
37	<i>Pochonia bulbillosa</i>	150	<i>Metarhizium anisopliae</i>	258	<i>Cordyceps farinosa</i>	360	<i>Metarhizium anisopliae</i>
38	<i>Paecilomyces marquandii</i>	151	<i>Metarhizium anisopliae</i>	259	<i>Metarhizium pemphigus</i>	361	<i>Cordyceps fumosorosea</i>
39	<i>Beauveria bassiana</i>	152	<i>Aspergillus lentulus</i>	261	<i>Beauveria bassiana</i>	362	<i>Aspergillus versicolor</i>
40	<i>Cordyceps fumosorosea</i>	153	<i>Metarhizium anisopliae</i>	262	<i>Acremonium strictum</i>	363	<i>Metarhizium anisopliae</i>
41	<i>Beauveria bassiana</i>	154	<i>Phialocephala sp.</i>	263	<i>Cordyceps farinosa</i>	364	<i>Paecilomyces marquandii</i>
42	<i>Beauveria bassiana</i>	155	<i>Metarhizium pemphigus</i>	264	<i>Beauveria bassiana</i>	365	<i>Metarhizium anisopliae</i>
43	<i>Cordyceps javanica</i>	156	<i>Metarhizium pemphigus</i>	265	<i>Beauveria bassiana</i>	366	<i>Beauveria bassiana</i>
45	<i>Bionectria ochroleuca</i>	157	<i>Metarhizium pemphigus</i>	266	<i>Metarhizium anisopliae</i>	367	<i>Metarhizium anisopliae</i>
46	<i>Aspergillus lentulus</i>	158	<i>Tolypocladium album</i>	267	<i>Verticillium insectorum</i>	368	<i>Metarhizium anisopliae</i>
47	<i>Cordyceps javanica</i>	159	<i>Metarhizium anisopliae</i>	268	<i>Metarhizium anisopliae</i>		
48	<i>Beauveria bassiana</i>	160	<i>Metarhizium anisopliae</i>	269	<i>Metarhizium pemphigus</i>		
49	<i>Beauveria bassiana</i>	161	<i>Beauveria bassiana</i>	270	<i>Beauveria bassiana</i>		
50	<i>Tolypocladium album</i>	162	<i>Cordyceps javanica</i>	271	<i>Metarhizium anisopliae</i>		
51	<i>Beauveria bassiana</i>	163	<i>Beauveria cf. bassiana</i>	272	<i>Cordyceps farinosa</i>		
52	<i>Beauveria bassiana</i>	164	<i>Beauveria bassiana</i>	273	<i>Simplicillium sp.</i>		
53	<i>Tolypocladium album</i>	165	<i>Cordyceps javanica</i>	274	<i>Metarhizium anisopliae</i>		
54	<i>Tolypocladium album</i>	167	<i>Lecanicillium sp.</i>	275	<i>Beauveria bassiana</i>		
56	<i>Cordyceps javanica</i>	168	<i>Beauveria bassiana</i>	276	<i>Metarhizium anisopliae</i>		
57	<i>Cordyceps javanica</i>	169	<i>Beauveria bassiana</i>	277	<i>Tolypocladium album</i>		
58	<i>Beauveria bassiana</i>	170	<i>Tolypocladium album</i>	278	<i>Metarhizium anisopliae</i>		
59	<i>Beauveria bassiana</i>	171	<i>Paecilomyces marquandii</i>	279	<i>Metarhizium anisopliae</i>		
60	<i>Pochonia bulbillosa</i>	172	<i>Myrothecium sp.</i>	280	<i>Pochonia bulbillosa</i>		
61	<i>Beauveria bassiana</i>	173	<i>Pochonia bulbillosa</i>	281	<i>Metarhizium anisopliae</i>		
62	<i>Beauveria bassiana</i>	174	<i>Beauveria bassiana</i>	282	<i>Beauveria bassiana</i>		
63	<i>Pochonia bulbillosa</i>	175	<i>Metarhizium anisopliae</i>	283	<i>Tolypocladium album</i>		
64	<i>Beauveria bassiana</i>	177	<i>Metarhizium anisopliae</i>	284	<i>Metarhizium anisopliae</i>		
65	<i>Beauveria bassiana</i>	179	<i>Metarhizium anisopliae</i>	285	<i>Cordyceps javanica</i>		
66	<i>Beauveria bassiana</i>	180	<i>Metarhizium pemphigus</i>	286	<i>Lecanicillium sp.</i>		
67	<i>Tolypocladium album</i>	181	<i>Cordyceps farinosa</i>	287	<i>Metarhizium anisopliae</i>		
68	<i>Tolypocladium album</i>	182	<i>Metarhizium anisopliae</i>	288	<i>Beauveria pseudobassiana</i>		
69	<i>Beauveria bassiana</i>	183	<i>Beauveria brongniartii</i>	289	<i>Beauveria bassiana</i>		
70	<i>Tolypocladium album</i>	184	<i>Metarhizium pemphigus</i>	290	<i>Metarhizium anisopliae</i>		
71	<i>Tolypocladium album</i>	185	<i>Pochonia bulbillosa</i>	291	<i>Tolypocladium album</i>		
72	<i>Beauveria bassiana</i>	186	<i>Metarhizium pemphigus</i>	292	<i>Beauveria pseudobassiana</i>		

73	<i>Tolypocladium album</i>	187	<i>Metarhizium pemphigus</i>	293	<i>Beauveria bassiana</i>
74	<i>Beauveria bassiana</i>	188	<i>Beauveria bassiana</i>	294	<i>Beauveria bassiana</i>
75	<i>Fusarium oxysporum</i>	189	<i>Beauveria bassiana</i>	295	<i>Metarhizium anisopliae</i>
76	<i>Cordyceps javanica</i>	190	<i>Lecanicillium sp.</i>	296	<i>Metarhizium anisopliae</i>
77	<i>Beauveria bassiana</i>	192	<i>Metarhizium pemphigus</i>	297	<i>Metarhizium anisopliae</i>
78	<i>Pochonia bulbilosa</i>	193	<i>Beauveria bassiana</i>	298	<i>Cordyceps fumosorosea</i>
79	<i>Beauveria bassiana</i>	194	<i>Metarhizium anisopliae</i>	299	<i>Metarhizium anisopliae</i>
80	<i>Beauveria bassiana</i>	195	<i>Cordyceps fumosorosea</i>	300	<i>Beauveria pseudobassiana</i>
83	<i>Paecilomyces lilacinus</i>	196	<i>Paecilomyces marquandii</i>	301	<i>Pochonia bulbilosa</i>
84	<i>Myrothecium sp.</i>	197	<i>Metarhizium anisopliae</i>	302	<i>Metarhizium anisopliae</i>
85	<i>Tolypocladium album</i>	198	<i>Metarhizium anisopliae</i>	303	<i>Beauveria bassiana</i>
86	<i>Paecilomyces marquandii</i>	199	<i>Beauveria cf. bassiana</i>	304	<i>Myrothecium sp.</i>
87	<i>Aspergillus lentulus</i>	201	<i>Beauveria bassiana</i>	305	<i>Beauveria bassiana</i>
88	<i>Cordyceps javanica</i>	202	<i>Metarhizium anisopliae</i>	306	<i>Beauveria bassiana</i>
89	<i>Beauveria bassiana</i>	203	<i>Metarhizium anisopliae</i>	307	<i>Beauveria bassiana</i>
90	<i>Cordyceps javanica</i>	204	<i>Beauveria bassiana</i>	308	<i>Beauveria bassiana</i>
91	<i>Beauveria bassiana</i>	205	<i>Bionectria ochroleuca</i>	309	<i>Beauveria bassiana</i>
92	<i>Myrothecium sp.</i>	206	<i>Beauveria bassiana</i>	310	<i>Lecanicillium sp.</i>
93	<i>Tolypocladium album</i>	207	<i>Metarhizium anisopliae</i>	311	<i>Metarhizium anisopliae</i>
95	<i>Beauveria bassiana</i>	208	<i>Beauveria bassiana</i>	312	<i>Bionectria ochroleuca</i>
96	<i>Beauveria bassiana</i>	209	<i>Metarhizium anisopliae</i>	313	<i>Lecanicillium sp.</i>
97	<i>Cordyceps javanica</i>	210	<i>Beauveria bassiana</i>	314	<i>Beauveria pseudobassiana</i>
98	<i>Simplicillium sp.</i>	211	<i>Metarhizium anisopliae</i>	315	<i>Cordyceps farinosa</i>
99	<i>Beauveria bassiana</i>	213	<i>Beauveria brongniartii</i>	316	<i>Beauveria pseudobassiana</i>
100	<i>Cordyceps javanica</i>	214	<i>Cordyceps fumosorosea</i>	317	<i>Cordyceps farinosa</i>
101	<i>Pochonia bulbilosa</i>	215	<i>Beauveria bassiana</i>	318	<i>Metarhizium anisopliae</i>
102	<i>Beauveria bassiana</i>	216	<i>Metarhizium anisopliae</i>	320	<i>Metarhizium anisopliae</i>
103	<i>Metarhizium pemphigus</i>	217	<i>Metarhizium anisopliae</i>	321	<i>Beauveria bassiana</i>
104	<i>Lecanicillium sp.</i>	218	<i>Metarhizium anisopliae</i>	322	<i>Beauveria bassiana</i>
105	<i>Aspergillus lentulus</i>	219	<i>Beauveria bassiana</i>	323	<i>Metarhizium pemphigus</i>
106	<i>Cordyceps javanica</i>	220	<i>Cordyceps farinosa</i>	324	<i>Tolypocladium album</i>
107	<i>Tolypocladium album</i>	221	<i>Lecanicillium sp.</i>	325	<i>Beauveria bassiana</i>
110	<i>Cordyceps javanica</i>	222	<i>Metarhizium anisopliae</i>	326	<i>Cordyceps farinosa</i>

Table S2. Germination inhibition activity of entomopathogenic fungal culture extracts against *Nosema ceranae* spores.

No. of isolate	Inhibition rate (%)	Standard error	No. of isolate	Inhibition rate (%)	Standard error	No. of isolate	Inhibition rate (%)	Standard error	No. of isolate	Inhibition rate (%)	Standard error
Control	0.00	1.24	290	77.84	4.85	104	64.47	13.91	194	21.49	2.95
296	96.45	2.81	25	77.73	3.03	146	64.16	4.47	186	21.05	5.59
329	96.10	3.73	357	77.68	2.92	217	63.41	5.43	190	20.07	2.74
293	94.42	2.36	361	77.56	3.93	42	63.20	1.11	160	17.72	3.77
242	94.00	3.39	272	77.44	2.79	269	62.36	4.55	78	17.67	3.94
189	93.66	5.88	16	77.26	3.39	171	62.18	2.74	63	17.11	2.55
320	93.66	2.92	246	76.83	5.40	270	62.05	8.07	86	17.11	2.74
181	93.61	2.27	258	76.83	2.44	62	61.62	3.20	83	16.82	1.19
298	93.41	2.01	263	76.83	1.94	20	61.51	1.71	158	16.67	5.15
306	93.19	5.84	303	76.77	3.82	224	60.98	1.54	214	16.10	1.58
300	93.08	2.59	338	76.60	3.99	110	60.69	3.86	3	15.53	4.40
115	92.47	3.93	363	76.59	3.77	85	60.53	2.88	75	15.53	2.50
317	91.22	2.12	247	76.51	2.00	312	60.15	2.35	192	15.41	3.93
347	90.98	5.48	105	76.38	0.98	173	59.87	3.14	33	15.38	3.33
135	90.94	1.95	8	76.29	3.82	336	59.67	5.20	46	13.16	2.27
79	90.76	5.48	349	76.26	2.44	103	58.60	4.62	205	12.37	3.93
206	90.60	6.78	210	75.88	3.33	234	58.60	2.61	84	11.89	3.33
144	90.48	2.18	52	75.83	1.69	241	58.54	5.20	56	11.48	7.63
341	90.43	3.61	65	75.76	2.79	308	57.51	3.32	139	11.18	1.57
67	90.15	2.36	209	75.74	2.44	9	56.75	2.76	93	9.77	2.59
188	90.15	1.11	275	75.73	1.94	199	56.62	4.28	31	9.21	2.00
243	89.91	7.87	222	75.61	3.60	257	56.59	4.92	53	9.18	8.97
208	89.67	13.18	254	75.61	7.08	203	56.58	4.47	32	7.63	3.93
265	89.64	8.29	342	75.54	8.36	351	56.30	2.21	43	7.60	3.61
117	89.57	6.10	19	75.47	0.63	266	56.10	6.69	128	6.64	3.93
220	89.49	1.58	76	75.46	4.99	297	56.10	3.18	187	1.67	2.86
253	89.40	2.93	4	75.21	9.32	226	55.12	4.94	45	0.00	3.50
60	89.29	3.72	331	75.16	5.17	267	55.12	3.43	14	0.00	2.88
309	89.27	2.34	288	75.12	3.74	126	54.87	6.07	6	0.00	3.33
294	89.10	2.68	311	75.12	3.14	182	54.74	2.93	18	0.00	3.20
287	89.02	4.09	245	75.06	6.18	148	54.64	4.03	22	0.00	5.66

161	88.66	2.86	40	75.01	2.18	323	54.63	4.12	259	0.00	6.35
289	88.44	3.65	195	74.91	3.50	134	54.34	7.09	154	0.00	1.42
95	88.39	2.56	360	74.63	5.46	70	53.76	3.45	37	0.00	1.51
276	88.29	4.78	2	74.31	8.52	316	53.66	7.39	34	0.00	5.15
249	88.20	10.95	41	74.08	4.87	324	53.31	7.50	71	0.00	8.92
64	88.10	1.66	57	74.07	3.83	168	53.15	5.07	28	0.00	3.39
354	87.36	4.72	344	74.04	3.89	221	52.44	2.79	54	0.00	4.40
340	87.15	2.73	211	73.80	2.65	228	52.20	4.77	138	0.00	4.43
348	86.64	3.67	172	73.78	4.62	299	52.20	6.64	13	0.00	4.91
26	86.62	2.86	327	73.69	7.67	278	51.30	3.51			
165	86.43	1.24	271	73.66	4.06	136	51.15	2.37			
96	86.37	10.47	280	73.66	2.68	202	51.08	5.30			
367	86.30	3.11	193	73.57	2.39	23	50.65	5.59			
121	85.91	5.93	29	73.56	6.07	49	50.00	4.50			
17	85.85	2.51	30	73.44	3.42	157	49.82	5.63			
204	85.84	1.75	215	73.42	2.34	98	49.74	1.85			
59	85.83	3.14	125	73.23	1.75	237	48.58	2.92			
97	85.39	3.50	365	72.93	1.85	91	46.68	3.73			
235	85.39	4.17	7	72.71	1.55	80	46.29	2.90			
330	85.37	2.43	286	72.56	6.98	102	46.28	4.15			
333	85.37	3.02	302	72.56	3.93	155	45.85	4.12			
339	85.37	4.55	368	72.52	3.93	310	45.84	2.72			
51	85.21	3.27	39	72.50	3.33	283	45.64	4.28			
164	85.19	4.75	5	72.40	5.86	120	45.49	2.05			
1	84.88	0.31	201	72.22	4.40	264	45.42	6.06			
183	84.67	4.91	177	72.01	6.62	282	45.12	5.37			
145	84.63	7.80	143	71.54	4.75	366	44.80	2.64			
27	84.26	1.16	163	71.32	11.06	151	44.74	3.72			
321	84.21	3.82	77	71.25	2.56	315	44.39	2.14			
364	84.15	5.17	47	71.03	3.93	129	44.08	4.12			
261	84.13	2.61	174	70.92	6.07	127	44.05	3.30			
218	83.90	4.12	350	70.89	1.17	101	43.95	3.93			
279	83.90	4.08	233	70.89	3.51	175	43.82	6.19			
307	83.87	1.73	346	70.77	3.32	213	43.42	3.14			
90	83.85	3.93	281	70.73	4.36	335	42.92	3.43			

137	83.48	3.83	326	70.73	8.77	232	41.46	6.06
58	83.40	4.33	69	70.49	5.76	313	41.45	4.41
61	82.98	2.96	334	70.49	5.95	106	40.82	5.69
358	82.95	6.21	132	70.22	8.22	304	40.79	4.30
227	82.86	3.44	114	70.20	3.11	359	40.49	1.92
328	82.68	3.00	229	69.80	3.02	89	40.47	2.27
99	82.64	3.20	24	69.75	5.98	162	40.26	4.99
72	82.64	5.76	322	69.69	2.62	292	39.65	5.39
184	82.39	6.00	352	69.27	3.57	179	39.21	3.93
10	82.26	1.08	268	69.07	4.55	325	38.70	3.22
274	82.23	1.92	197	69.05	5.11	362	38.43	3.77
150	82.14	4.46	152	69.05	3.39	225	36.36	8.61
239	81.94	2.86	170	69.04	2.77	207	35.66	3.35
35	81.83	5.59	68	68.67	7.31	131	35.49	3.83
337	81.61	8.08	74	68.53	4.40	180	35.26	3.11
238	80.98	3.11	262	68.29	4.15	305	34.34	1.97
284	80.98	2.55	250	68.29	3.25	140	34.21	1.95
295	80.76	4.12	153	68.19	2.68	50	33.88	3.33
332	80.64	6.75	113	67.59	1.78	159	33.88	3.93
185	80.58	1.25	353	67.07	4.66	156	33.33	7.80
255	80.49	4.72	198	66.75	4.91	88	32.65	6.00
252	80.42	9.18	133	66.62	2.51	231	32.21	3.11
230	80.15	2.86	285	66.54	5.17	119	32.02	4.15
100	80.09	6.44	244	66.50	5.24	87	30.64	3.83
240	79.97	3.59	48	66.33	7.12	223	29.52	5.20
318	79.74	5.46	355	66.18	2.62	38	28.95	3.33
291	79.30	3.87	251	65.75	2.28	66	27.33	4.15
149	79.11	8.14	169	65.72	5.17	277	26.83	3.57
107	78.67	5.48	314	65.61	4.71	236	25.37	2.93
130	78.60	5.25	142	65.58	3.93	73	25.36	1.08
219	78.47	2.59	12	65.26	4.99	196	24.89	3.33
124	78.46	3.33	92	64.98	3.20	167	24.21	2.27
216	78.16	1.16	273	64.88	2.94	112	23.68	5.55
301	78.05	2.20	15	64.73	2.88	345	23.63	3.37
343	78.05	7.04	356	64.63	2.62	123	23.03	6.00

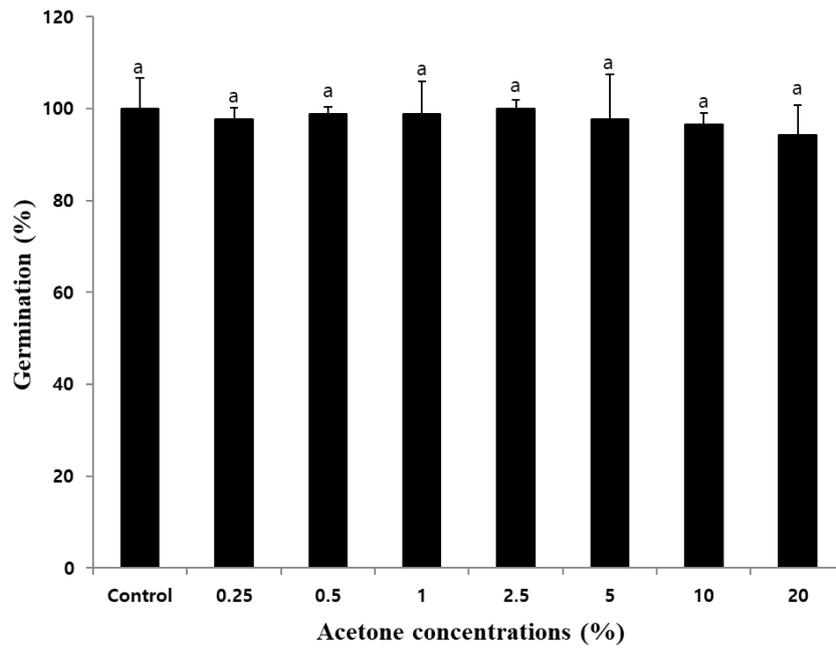


Figure S1. Germination of *Nosema ceranae* spores by acetone solvent treatment. After treating the spores with acetone at each concentration, the germination rate was determined by an *in vitro* germination assay.

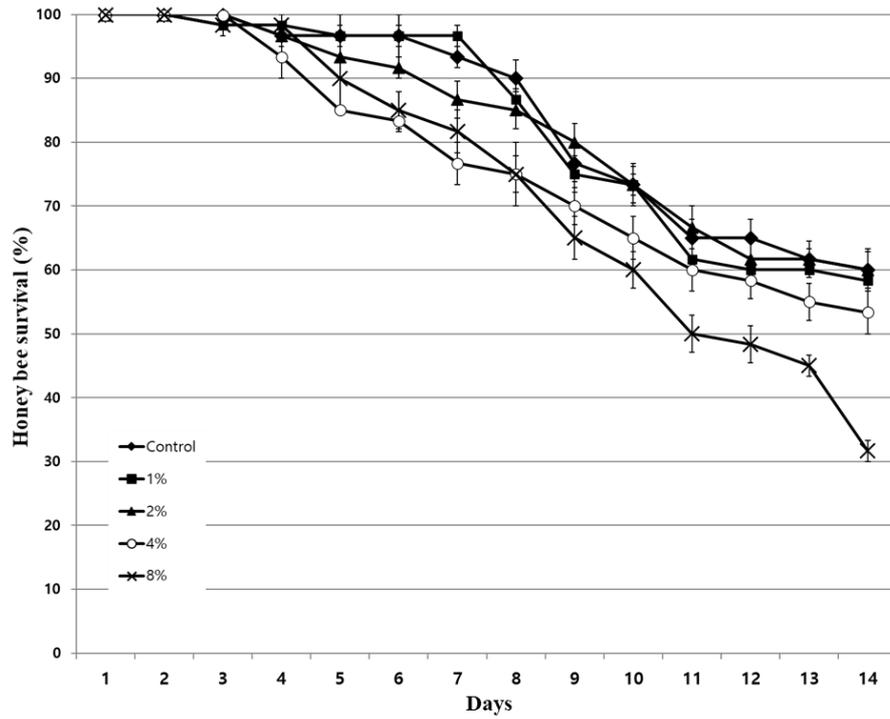


Figure S2. Honey bee survival by acetone treatment at different concentrations. A mixture of acetone and 50% sucrose solution was fed to honey bees. After that, the survival rate of honey bees was determined for 14 days. The control group was fed only a 50% sucrose solution. Data show the mean \pm SE.