

Table S1. Data set used for data analysis in the article.

ID	Board	Method of Contamination	Treatment	Surface	Mould grade	Density	Moisture content (MC) before	MC after	MC increase	<i>Aspergillus</i>	<i>Penicillium</i>	<i>Paecilomyces</i>
ARI	1	1	1	0	5	543	15.81	27.24	11.43	4.960894	58.8662	36.1729
BRI	2	1	1	0	5	560	15.30	27.10	11.80	0.938403	70.55437	13.09886
CRI	3	1	1	0	5	530	14.98	28.74	13.76	1.091469	68.4776	19.20822
DRI	4	1	1	0	5	547	15.92	26.32	10.40	1.386235	79.88876	12.03596
ERI	5	1	1	0	5	560	15.64	27.10	11.46	12.24853	81.42965	12.24853
ABI	1	1	2	0	5	543	15.81	32.99	17.18	3.611516	71.74854	24.63994
BBI	2	1	2	0	5	560	15.30	27.73	12.43	3.692641	74.49639	14.92641
CBI	3	1	2	0	5	530	14.98	25.12	10.14	1.955726	91.85943	16.21718
DBI	4	1	2	0	5	547	15.92	26.76	10.84	1.694548	85.10411	13.86534
EBI	5	1	2	0	5	560	15.64	27.64	12.00	3.222481	88.19612	11.76357
ASI	1	1	3	0	2	543	15.81	27.99	12.18	0	7.391592	0
BSI	2	1	3	0	2	560	15.30	26.86	11.56	0.442102	32.43775	0
CSI	3	1	3	0	2	530	14.98	28.34	13.36	0	4.555191	2.936992
DSI	4	1	3	0	3	547	15.92	26.30	10.38	0.256327	33.26776	0
ESI	5	1	3	0	2	560	15.64	27.27	11.63	0	9.166573	0.589545
AGI	1	1	4	0	4	543	15.81	31.45	15.64	5.203353	0	80.85915
BGI	2	1	4	0	5	560	15.30	28.06	12.76	80.50384	11.59668	9.276945
CGI	3	1	4	0	5	530	14.98	26.25	11.27	52.92172	29.0673	14.04288
DGI	4	1	4	0	4	547	15.92	27.48	11.56	1.812056	48.29662	8.413273
EGI	5	1	4	0	4	560	15.64	31.37	15.73	40.24097	10.91881	1.072652
ARI	1	1	1	1	5	543	15.81	27.24	11.43	9.20	61.11	27.71
BRI	2	1	1	1	5	560	15.30	27.10	11.80	1.27	59.21	14.93
CRI	3	1	1	1	5	530	14.98	28.74	13.76	1.54	84.52	10.63
DRI	4	1	1	1	5	547	15.92	26.32	10.40	1.84	75.39	16.30

ERI	5	1	1	1	5	560	15.64	27.10	11.46	14.05	70.88	31.53
ABI	1	1	2	1	5	543	15.81	32.99	17.18	7.80	58.96	33.23
BBI	2	1	2	1	5	560	15.30	27.73	12.43	5.42	89.21	20.99
CBI	3	1	2	1	5	530	14.98	25.12	10.14	72.78	29.95	17.45
DBI	4	1	2	1	5	547	15.92	26.76	10.84	1.44	80.11	22.84
EBI	5	1	2	1	5	560	15.64	27.64	12.00	5.88	72.10	15.74
ASI	1	1	3	1	2	543	15.81	27.99	12.18	0.35	7.68	0.00
BSI	2	1	3	1	2	560	15.30	26.86	11.56	0.49	20.50	0.00
CSI	3	1	3	1	3	530	14.98	28.34	13.36	0.00	45.04	4.48
DSI	4	1	3	1	0	547	15.92	26.30	10.38	0.00	0.00	0.00
ESI	5	1	3	1	1	560	15.64	27.27	11.63	0.00	1.54	0.00
AGI	1	1	4	1	4	543	15.81	31.45	15.64	30.66	7.44	6.96
BGI	2	1	4	1	4	560	15.30	28.06	12.76	4.51	50.17	19.94
CGI	3	1	4	1	4	530	14.98	26.25	11.27	27.24	5.39	11.46
DGI	4	1	4	1	4	547	15.92	27.48	11.56	35.29	15.31	5.63
EGI	5	1	4	1	3	560	15.64	31.37	15.73	24.62	19.15	4.45
ARD	1	0	1	0	5	543	15.81	27.88	12.07	87.31019	0	0
BRD	2	0	1	0	5	560	15.30	28.13	12.83	80.28664	26.09025	0
CRD	3	0	1	0	5	530	14.98	26.56	11.58	83.39162	0	0
DRD	4	0	1	0	5	547	15.92	29.43	13.51	69.94116	15.58918	6.486423
ERD	5	0	1	0	5	560	15.64	26.98	11.34	10.87971	68.35583	15.23919
ABD	1	0	2	0	5	543	15.81	25.88	10.07	26.80272	22.54327	9.703661
BBD	2	0	2	0	5	560	15.30	26.51	11.21	69.00493	10.39722	0
CBD	3	0	2	0	5	530	14.98	25.37	10.39	77.36359	0	0
DBD	4	0	2	0	5	547	15.92	28.07	12.15	74.56493	21.30622	0
EBD	5	0	2	0	5	560	15.64	26.37	10.73	65.34685	43.35693	7.553973
ASD	1	0	3	0	1	543	15.81	27.45	11.64	0	7.088434	0
BSD	2	0	3	0	3	560	15.30	27.99	12.69	0	52.71254	0
CSD	3	0	3	0	3	530	14.98	27.21	12.23	17.59025	0	0
DSD	4	0	3	0	1	547	15.92	29.95	14.03	1.515398	0	0

ESD	5	0	3	0	2	560	15.64	28.07	12.43	2.250438	15.11482	1.550335
AGD	1	0	4	0	5	543	15.81	27.44	11.63	80.29248	0	0
BGD	2	0	4	0	5	560	15.30	26.99	11.69	67.12992	0	0
CGD	3	0	4	0	5	530	14.98	26.05	11.07	80.61663	0	0
DGD	4	0	4	0	4	547	15.92	28.53	12.61	63.85418	0	0
EGD	5	0	4	0	4	560	15.64	26.15	10.51	53.73057	0	0
ARD	1	0	1	1	5	543	15.81	27.88	12.07	31.37	6.86	20.42
BRD	2	0	1	1	5	560	15.30	28.13	12.83	56.33	26.32	12.17
CRD	3	0	1	1	4	530	14.98	26.56	11.58	44.06	29.48	10.52
DRD	4	0	1	1	5	547	15.92	29.43	13.51	12.79	66.68	26.52
ERD	5	0	1	1	5	560	15.64	26.98	11.34	11.87	63.94	29.73
ABD	1	0	2	1	5	543	15.81	25.88	10.07	62.94	6.51	0.00
BBD	2	0	2	1	5	560	15.30	26.51	11.21	54.05	25.52	15.16
CBD	3	0	2	1	5	530	14.98	25.37	10.39	12.03	60.01	14.44
DBD	4	0	2	1	5	547	15.92	28.07	12.15	66.68	24.49	3.06
EBD	5	0	2	1	5	560	15.64	26.37	10.73	10.69	59.28	18.30
ASD	1	0	3	1	2	543	15.81	27.45	11.64	0.00	20.51	0.00
BSD	2	0	3	1	1	560	15.30	27.99	12.69	0.02	5.21	0.00
CSD	3	0	3	1	2	530	14.98	27.21	12.23	7.43	5.12	0.00
DSD	4	0	3	1	2	547	15.92	29.95	14.03	0.00	4.96	0.00
ESD	5	0	3	1	1	560	15.64	28.07	12.43	0.20	3.52	0.00
AGD	1	0	4	1	5	543	15.81	27.44	11.63	76.41	0.00	0.00
BGD	2	0	4	1	4	560	15.30	26.99	11.69	52.31	0.00	0.00
CGD	3	0	4	1	4	530	14.98	26.05	11.07	63.34	0.00	0.00
DGD	4	0	4	1	4	547	15.92	28.53	12.61	39.67	42.91	22.76
EGD	5	0	4	1	3	560	15.64	26.15	10.51	34.97	0.00	0.00

Table S2 The p-value for the significance of moisture content changes after test difference between treatments in the indirect and direct method of inoculation, significant difference $p < 0.05$.

Dependent Variable	Individual mean	Comparable mean	Significance Indirect Fungal Inoculation	Significance Direct Fungal Inoculation
MC after	R	B	0.808	0.022
		S	1.000	0.870
		G	0.203	0.333
	B	R	0.808	0.022
		S	0.838	0.003
		G	0.724	0.553
	S	R	1.000	0.870
		B	0.838	0.003
		G	0.255	0.081
	G	R	0.231	0.333
		B	0.724	0.553
		S	0.255	0.081
MC increase	R	B	0.796	0.003
		S	1.000	0.775
		G	0.211	0.160
	B	R	0.796	0.003
		S	0.828	0.000
		G	0.708	0.360
	S	R	1.000	0.775
		B	0.828	0.000
		G	0.235	0.019
	G	R	0.211	0.160
		B	0.708	0.360
		S	0.235	0.019

Table S3. The p-value for the significance of difference between treatments in both methods, significant difference $p < 0.05$.

Dependent Variable	Indirect Fungal Inoculation	Direct Fungal Inoculation	Significance Method of contamination
MC after	R	R	0.258
	B	B	0.101
	S	S	0.068
	G	G	0.024
	All		0.122
MC increase	R	R	0.290
	B	B	0.077
	S	S	0.076
	G	G	0.013
	All		0.104