

## Supporting Information

**Table S1:** Twenty-four maize samples were analyzed with qPCR as well as with LC-MS/MS to get information about the correlation of *Fusarium* DNA with mycotoxin content. This list provides all experimental data results.

Sample identification number	PCR determined infection (singleplex)		PCR determined infection (multiplex)		Trichothecenes [µg/kg]								Fumonisin [µg/kg]		
	<i>tri5</i> [%]	<i>fum1</i> [‰]	<i>tri5</i> [%]	<i>fum1</i> [‰]	DON	D3G	NIV	3-ADON	T-2	HT-2	DAS	NEO	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>
1001	2,83	0,00575	2,29	0,00559	3880	1733	7.92	70.3	2.69	16.3	< LOD	< LOD	< LOD	< LOD	< LOD
1005	1,63	0,00543	0,84	0,00834	3448	1083	16.5	80.8	6.64	11.3	< LOD	< LOD	115	< LOD	23.6
1006	1,78	0,03072	1,60	0,0428	2040	1015	132.8	74.9	2.95	13.3	0.51	< LOD	233	48.5	79.7
1007	1,89	0,01613	1,72	0,01634	2192	839	14.6	29	< LOD	3.55	0.76	< LOD	< LOD	< LOD	< LOD
1008	1,10	0,23280	0,82	0,21852	2680	1367	24.9	98.4	43.1	54.7	0.96	< LOD	558	174	29.6
1009	1,67	0,02620	0,90	0,04848	2960	1428	116	49.2	< LOD	3.77	1.36	< LOD	74.4	25.5	< LOD
1010	1,07	0,07766	1,04	0,0702	3240	1706	125	62.9	< LOD	< LOD	< LOD	< LOD	117	20.2	17.1
1011	2,95	0,04082	2,70	0,0382	3264	1794	204	97.6	< LOD	< LOD	< LOD	< LOD	161	23.5	21.1
1012	1,20	0,06864	0,71	0,05985	2776	1008	22.2	63.4	55.8	156	0.58	6.05	1115	243	106
1013	0,94	0,02776	0,51	0,01466	4064	853	218	139	< LOD	4.38	< LOD	< LOD	64.6	23.9	< LOD
1015	1,77	0,06958	1,16	0,06059	7864	1482	416	311	2.46	5.53	< LOD	< LOD	428	88.8	37.9
1016	1,30	0,10853	1,58	0,0994	5392	988	637	110	63.7	294	0.67	13.11	2488	691	341
1018	1,73	0,03080	1,89	0,0515	9280	2856	518	289	< LOD	7.45	< LOD	< LOD	< LOD	< LOD	< LOD
1020	3,12	0,06969	2,82	0,0744	13680	2856	821	337	3.16	17.6	< LOD	2.52	476	107	68.6
1021	1,11	0,03625	0,98	0,05262	3232	907	220	294	9.21	25	0.5	< LOD	97.7	38.2	22.1
1022	0,34	0,04620	0,21	0,03994	6496	1022	29.3	338	< LOD	< LOD	< LOD	< LOD	< LOD	< LOD	< LOD
1023	0,28	0,02658	0,10	0,01515	464.8	72	14.7	28	< LOD	< LOD	< LOD	< LOD	263	135	21.9
1025	1,98	0,11999	1,56	0,12291	5328	1963	102	327	2.01	< LOD	0.76	< LOD	241	74.1	24.6
1026	0,95	0,00705	0,59	0,00611	3912	1008	27.2	249	3.04	< LOD	< LOD	< LOD	< LOD	< LOD	< LOD
1028	2,81	0,02357	2,57	0,02919	6432	1157	126	434	< LOD	< LOD	< LOD	< LOD	81.4	21.6	< LOD
1030	0,58	0,00391	0,29	0,00550	1616	277	234	93.6	< LOD	< LOD	< LOD	< LOD	< LOD	< LOD	< LOD
1034	0,34	0,00615	0,21	0,02	816	181	14.3	43.9	4.75	5.73	< LOD	< LOD	< LOD	< LOD	< LOD
1037	1,24	0,03570	1,60	0,023	3800	948	220.9	271	6.83	3.68	< LOD	< LOD	45.1	27.4	11.3
1038	3,28	0,00286	3,33	0,00082	8960	2734	208.6	960	9.12	30.5	< LOD	< LOD	< LOD	< LOD	< LOD