Supplementary Materials: Mycotoxigenic Potentials of *Fusarium* Species in Various Culture Matrices Revealed by Mycotoxin Profiling

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Table S1. Relative recoveries of the thirty three targeted mycotoxins at concentration of 50 μg·kg^{-1} spiked in PDA, rice and maize samples using ^{13}C-AFB1, ^{13}C-OTA, ^{13}C-T-2, ^{13}C-DON and ^{13}C-ZEN as the internal standards (n = 5).

Mycotoxins	PDA	Rice	Maize
AFB1	108.8 ± 16.4	119.5 ± 6.1	102.0 ± 5.8
AFB2	119.8 ± 8.4	110.7 ± 5.1	88.4 ± 0.7
AFG1	106.4 ± 13.1	107.8 ± 8.3	94.1 ± 10.2
AFG2	112.3 ± 7.4	97.1 ± 3.3	81.6 ± 0.4
AFM1	89.6 ± 9.7	87.7 ± 5.5	90.3 ± 4.4
AFM2	114.4 ± 7.7	112.9 ± 4.8	116.2 ± 0.4
SMC	108.1 ± 8.5	102.4 ± 5.8	100.1 ± 17.3
NEO	101.9 ± 8.6	97.3 ± 16.5	96.0 ± 11.0
OTA	111.3 ± 6.9	96.3 ± 18.5	95.8 ± 6.5
DAS	90.7 ± 12.2	94.6 ± 6.6	110.9 ± 9.0
T-2	95.7 ± 17.3	112.6 ± 5.5	72.3 ± 4.0
HT2	91.6 ± 13.2	103.6 ± 6.8	103.2 ± 19.6
MPA	114.5 ± 14.7	115.2 ± 8.1	119.6 ± 13.6
FB1	89.8 ± 10.3	106.7 ± 3.9	99.1 ± 11.1
FB2	97.2 ± 6.1	86.5 ± 3.6	85.0 ± 12.4
VER	79.6 ± 5.3	88.2 ± 3.4	95.9 ± 2.1
DON	83.6 ± 16.4	101.3 ± 19.2	107.9 ± 16.0
Fus X	99.3 ± 15.4	98.2 ± 12.3	85.8 ± 7.6
Deep-DON	106.9 ± 18.7	91.6 ± 8.1	116.5 ± 6.2
15-DON	101.2 ± 13.3	102.5 ± 9.1	101.0 ± 20.5
3-ADON	90.0 ± 14.3	90.3 ± 13.5	103.8 ± 19.5
CPA	111.8 ± 16.0	107.8 ± 12.4	86.6 ± 12.1
ZEN	107.1 ± 6.9	75.2 ± 4.0	89.6 ± 13.8
ZAN	110.3 ± 6.9	102.5 ± 16.1	110.3 ± 14.9
α-ZOL	83.6 ± 9.6	103.5 ± 6.9	101.7 ± 7.9
α-ZAL	108.9 ± 8.5	98.9 ± 8.4	86.1 ± 11.4
β-ZOL	72.5 ± 3.4	93.3 ± 2.5	81.7 ± 5.3
β-ZAL	92.1 ± 3.5	88.3 ± 4.4	87.1 ± 5.5
Fusaric acid	102.1 ± 11.2	119.4 ± 2.8	89.5 ± 9.9
Glitoxin	108.8 ± 14.5	96.9 ± 13.2	92.8 ± 10.9
CIT	99.3 ± 16.0	115.9 ± 2.3	107.3 ± 10.6
PAT	113.8 ± 3.5	72.5 ± 4.1	100.5 ± 15.5
NIV	81.3 ± 7.9	111.0 ± 9.5	104.4 ± 13.2

Table S2. Optimum temperatures for mycotoxin production of *Fusarium* species (PDA, 21 days).

Strain No.	*Fusarium* Species	Optimum Temperature for Mycotoxin Production (°C)
1	*Fusarium temperatum*	20
2	*Fusarium subglutinans*	20
3	*Fusarium culmorum*	20
4	*Fusarium fujikuroi*	25
5	*Fusarium langsethiae*	15
6	*Fusarium musae*	25
7	*Fusarium poae*	25
8	*Fusarium proliferatum*	30
9	*Fusarium graminearum*	30
10	*Fusarium sporotrichioides*	15
11	*Fusarium tricinctum*	30
12	*Fusarium verticillioides*	30
13	*Fusarium oxysporum*	35
14	*Fusarium meridionale*	30
15	*Fusarium equiseti*	25
16	*Fusarium sacchari*	25
17	*Fusarium solani*	25
18	*Fusarium concentricum*	30
19	*Fusarium andiyazi*	30
20	*Fusarium polyphialidicum*	25

Table S3. Mycotoxins profiles of 20 species of toxicogenic *Fusarium*_spp. in PDA medium under culture condition of 25 °C for 21 days (μg·kg^{-1}).

Strain No.	Type B Trichothecenes					Type A Trichothecenes				Fumonisins		Fusaric Acid	ZEN
	DON	3-ADON	15-ADON	NIV	FUS-X	T-2	HT-2	DAS	NEO	FB1	FB2		
1												1469 ± 237	
2												12,435 ± 667	
3				269 ± 15	13 ± 1							4 ± 0.3	4.4 ± 0.4
4										21 ± 4	15 ± 0.8	11 ± 0.9	
5						5789 ± 630	737 ± 94	482 ± 73	2030 ± 379				
6												4232 ± 175	
7				566 ± 36	60 ± 6								
8										10,085 ± 883	354 ± 66	34 ± 3	
9	13,532 ± 486	7700 ± 432	5716 ± 714									5 ± 0.3	5.2 ± 0.5
10						6904 ± 902	2967 ± 409	231 ± 50	13,334 ± 693				
11												146 ± 11	
12										15,168 ± 1227	594 ± 77	4642 ± 500	
13													
14				123 ± 31	107 ± 6								41 ± 6
15												698 ± 335	
16												408 ± 51	
17										32 ± 4	14 ± 3	12 ± 0.7	
18												3410 ± 228	
19												6464 ± 379	
20								23 ± 5					

Table S4. Mycotoxins profiles of 20 species of toxicogenic *Fusarium* spp. in rice medium under culture condition of 25 °C for 21 days (μg·kg^{-1}).

Strain No.	Type B Trichothecenes					Type A Trichothecenes				Fumonisins		Fusaric Acid	ZEN
	DON	3-ADON	15-ADON	NIV	FUS-X	T-2	HT-2	DAS	NEO	FB1	FB2		
1												344 ± 47	
2												34 ± 13	
3				3151 ± 205	1022 ± 98								817 ± 37
4										74 ± 16	35 ± 7	7.8 ± 0.6	
5						19,228 ± 3783	5983 ± 231	2507 ± 93	25,079 ± 465				
6												938 ± 103	
7				21,231 ± 1012	1838 ± 69	140 ± 29	25 ± 0.9	1274 ± 257	213 ± 55				
8										146,726 ± 12746	60,378 ± 2376	36 ± 7	
9	286,258 ± 8794	50,344 ± 574	44,943 ± 868										297 ± 67
10						16,651 ± 3055	4623 ± 568	244 ± 19	20,456 ± 493				
11													
12										273,894 ± 3464	98,523 ± 10,352	110 ± 9	
13												77 ± 11	
14				120,342 ± 4967	112,167 ± 13,653				436 ± 57				185 ± 32
15												828 ± 48	
16													
17										42 ± 6	30 ± 6	13 ± 1	
18													
19												19 ± 2	
20								1333 ± 90					

Table S5. Mycotoxins profiles of 20 species of toxicogenic *Fusarium* spp. in maize medium under culture condition of 25 °C for 21 days (μg·kg^{-1}).

Strain No.	Type B Trichothecenes					Type A Trichothecenes				Fumonisins		Fusaric Acid	ZEN
	DON	3-ADON	15-ADON	NIV	FUS-X	T-2	HT-2	DAS	NEO	FB1	FB2		
1													
2												657 ± 70	
3				2039 ± 345	1260 ± 74	74 ± 11	13 ± 1		33 ± 6				204 ± 32
4										61 ± 17	20 ± 3	10 ± 2	
5						24,179 ± 2013	9376 ± 433	2668 ± 105	28,365 ± 1022				
6												733 ± 23	
7				979 ± 79	137 ± 36	8.1 ± 0.7		1102 ± 95	61 ± 18				
8										104,810 ± 8563	77,939 ± 6036	344 ± 62	
9	33,236 ± 2584	14,920 ± 2468	13,038 ± 1693		1060 ± 74								91 ± 9
10						24,836 ± 9005	13,053 ± 768	712 ± 12	17,656 ± 1245				
11												28 ± 4	
12										237,208 ± 8654	180,778 ± 6438		
13												80 ± 9	
14				45,453 ± 4049	37,175 ± 3529				126 ± 5				79 ± 15
15												368 ± 31	
16												15 ± 0.8	
17										146 ± 10	49 ± 8	3.2 ± 0.1	
18													
19												258 ± 32	
20								3386 ± 103					

Table S6. *EF-1α* Sequences of 20 *Fusarium* species.

Strain No. 1 GCACGTCGACTCTGGCAAGTCGACCACTGTGAGTACTACCCTCGACGATGAGCTTATCTG CCATCGTTATCCCGACCAAGACCTGGCGGGCGTCTCAAAAGATAACATGCTGACATCGC TTCACAGACCGGTCACTTGATCTACCAGTGCGGTGGTATCGACAAGCGAACCATCGAGA AGTTCGAGAAGGTTAGTTACTTTCCCTTCGATCGCGCGTCCTTTGCCCATCGATTCTCCAT ACGACTCGAAACGTGCCCGCTACCCCGCTCGAGACCAAAAAATTTGCGATATGACCGTA ATTTTTTTGGTGGGGCATTTACCCCGCCACTCGAGCAATGCGCGTTTCTGCCCTCCCATTG CCACAACCTTCTGAGCGCATCGTCACGTGTTAAGCAGTCACTAACCATTCGTCAATAGGA AGCCGCTGAGCTCGGTAAGGGTTCCTTCAAGTACGCCTGGGTTCTTGACAAGCTCAAGGC CGAGCGTGAGCGTGGTATCACCATCGATATTGCTCTCTGGAAGTTCGAGACTCCTCGCTA CTATGTCACTGTCATTGGTATGTTGTCGCTCATGCCTCGTTCTCCCTTAATTCGTACTAACA TATCACTCAGACGCTCCCGGTCATCGTGACTTCATCAAGAACATGATCCGGGGTGAATTT CCAA
Strain No. 2 CGACTCTGGCAGTCGACCACTGTGAGTACTACCCTCGACGATGAGCTTATCTGCCATCGT TATCCCGACCAAGACCTGGCGGAGTATCTCAAAGATAACATGCTGACATCGCTCCACAG ACCGGTCACTTGATCTACCAGTGCGGTGGTATCGACAAGCGAACCATCGAGAAGTTCGA GAAGGTTAGTTACTTTCCCTTCGATCGCGCGTCCTTTGCCCATCGATTCTCCATTCGACTC GAAACGTGCCCGCTACCCCGCTCGAGACCAAAAATTTTGCGATATGACCGTAATTTTTTT TGGTGGGGCATTTACCCCGCCACTCGAGCGATGCGCGTTTCTGCCCTCTCATTTTCACAAC CTTCTGAGCGCATCGTCACGTGCTAAGCAGTCACTAACCATTCAACAATAGGAAGCCGC CGAGCTCGGTAAGGGTTCCTTCAAGTACGCCTGGGTTCTTGACAAGCTCAAGGCTGAGCG TGAGCGTGGTATCACCATCGATATTGCTCTCTGGAAGTTCGAGACTCCTCGCTACTATGTC ACCGTCATTGGTATGTTGTCGCTCATGCATTGTTCTCCCTTTATTCGTACTAACATATCACT CAGACGCTCCCGGTCATCGTGACTTCATCAAGAACATGATCCGGGGCTTTTCTCCAAAA
Strain No. 3 GATCGGCCACGTCGACTCTGGCAAGTCGACCACTGTGAGTACCACTGCATCCCAACCCC GCCGATACTTGGCGGGGTAGTTTCAAATTTCCAATGTGCTGACATACTTTGATAGACCGG TCACTTGATCTACCAGTGCGGTGGTATCGACAAGCGAACCATCGAGAAGTTCGAGAAGG TTGGTCTCATTTTCCTCGATCGCGCGCCCTTTTCCCTTTCGAAACATCATTCGAATCGCCCT CACACGACGACTCGATACGCGCCTGTTACCCCGCTCGAGGTCAAAAATTTTGCGGCTTTG TCGTAATTTTTCTGGTGGGGCTCATACCCCGCCACTCGAGCGACAGGCGCTTGCCCTCTTC CCACAAACCATTCCCTAGGCGCGCACCATCACGTGTCAATCAGTTACTAACCACCTGTCA ATAGGAAGCCGCCGAGCTCGGTAAGGGTTCCTTCAAGTACGCCTGGGTTCTTGACAAGCT CAAAGCCGAGCGTGAGCGTGGTATCACCATTGATATCGCTCTCTGGAAGTTCGAGACTCC TCGCTACTATGTCACCGTCATTGGTATGTTGTCACTACTGCTGTCATCACATTCTCATACTA ACACGACTATCAGACGCTCCCGGTCACCGTGATTTCATCAAGAACATGATCACTGGTACT TCC
Strain No. 4 GATCGGCCACGTCGACTCTGGCAAGTCGACCACTGTGAGTACTACCCTCGACGATGAGC TTATCTGTCATCGTGATCCTGACCAAGATCTGGCGGGGTATATCTCAGAAGACAATATGC TGACATCGCTTCACAGACCGGTCACTTGATCTACCAGTGCGGTGGTATCGACAAGCGAAC CATCGAGAAGTTCGAGAAGGTTAGTCACTTTCCCTTCGATCGCGCGTCCTTTGCCCACCG ATTTCCCTTACGATTCGAAACGTGCCTGCTACCCCGCTCGAGACCAAAAATTTTGCGATA TGACCGTAATTTTTTTTGGTGGGGCATTTACCCCGCCACTCGAGTGATGGGCGCGTTTTGC CCTTTCCTGTCCACAACCTCAATGAGCGCATTGTCACGTGTCAAACTAACCATTCGACAA TAGGAAGCCGCTGAGCTCGGTAAGGGTTCCTTCAAGTACGCCTGGGTTCTTGACAAGCTC AAGGCCGAGCGTGAGCGTGGTATCACCATCGATATTGCTCTCTGGAAGTTCGAGACTCCT CGCTACTATGTCACCGTCATTGGTATGTTGTCGCTCATGCGTCATTCTACTTATTCATACTA

ACATATCATTCAGACGCTCCCGGTCACCGTGATTTCATCAAGAACATGATCACTGGTACT
TCCA

Strain No. 5

AGACATAGTCTAACACTGTCAGTACCTCTGCATCCCAACCCCGCCGACAATTGGCGGGGT
AGTTTCAAACTTCCTCTTTGCTGACATGCTTTGACAGACCGGTCACTTGATCTACCAGTGC
GGTGGTATCGACAAGCGAACCATCGAGAAGTTCGAGAAGGTTGGTCTCATTTTCCTCGAT
CGCGCGCCCTTCTTCCCATCGATCCATCATTCAAATCGCTCTCATACAACAACTCGACAA
GCGCCGGTTACCCCGCTCGAGTTTAAAATTTTACGGCCGTGTCGTAATTTTTTTTGTGGTG
GGGCTCATACCCCGCCACTCGAGTGACAGGGGCTCTTCCTTCCCACATAGCCATTTACAT
GGGCGCGCATCATCACGTGTCAATCAGTCACTAACCACCTGTCAATAGGAAGCCGCTGA
GCTCGGTAAGGGTTCCTTCAAGTACGCCTGGGTTCTTGACAAGCTCAAAGCCGAGCGTGA
GCGTGGTATCACCATTGATATCGCTCTCTGGAAGTTCGAGACTCCTCGCTACTATGTCACC
GTCATTGGTATGTTATCATTATTGTCTTCATCACATTATCATACTAACATGCCTGCCAGAC
GCTCCCGGGCACCGTGATTTCATCAAGAACATGATCACTGGGTACTTCCCAAAAAA

Strain No. 6

CTATCGGCCACGTCGACTCTGGCAAGTCGACCACTGTGAGTACTACCCTTGACGATGAGC
TTATCGGCCATCGTAAACCCGGCCAAGACCTGGCAGGGTATTTTTCAAAGAAAACATGCT
GACATCGCTTCACAGACCGGTCACTTGATCTACCAGTGCGGTGGTATCGACAAGCGAAC
CATCGAGAAGTTCGAGAAGGTTAGTCACTTTTCCTTCTATCGCGCGTTCTTTGCCCATCGA
TTTCCCCCTACGACTCGAAACGTACCCGCTACCCCGCTCGAGCCCAAAAATTTTGCGATA
TGACCGTAATTTTTTCTGGTGGAGCATTTACCCCGCCACTCGAGCGGCGCGTTTCTGCCCT
CTCCCATTCCACAACCTCACTGAGCTCATCGTCACGTGTCAAGCAGTCACTAACCATCCG
ACAATAGGAAGCCGCTGAGCTCGGTAAGGGTTCCTTCAAGTACGCCTGGGTTCTTGACA
AGCTCAAGGCCGAGCGTGAGCGTGGTATCACCATCGATATCGCTCTCTGGAAGTTCGAG
ACTCCTCGCTACTATGTCACCGTCATTGGTATGTCGTCGCTCTTACTCCGTTCTATATCTCC
TATTACTAACACATCACATAGACGCTCCCGGTCACCGTGATTTCATCAAGAACATGATCA
CTGG

Strain No. 7

AGTCGAACTCTGGCAAGTCGACCACTGTAAGTACAACCGAATCTCAACTCCGCTTTGACA
TGGCGGGGTAGACTCAACATGCACTTGTGCTAACATGCTTGACAGACCGGTCACTTGATC
TACCAGTGCGGTGGTATCGACAAGCGAACCATCGAGAAGTTCGAGAAGGTTGGTCTCAT
TTTCCTCGATCGCGCGCCCTACTTTCCCTCGATCCATCACTCGAATCGCTCTTATACGACT
CGACACACACCTGTTACCCCGCTCGAGTCCGAATTTTTACGATTTTGTCGTAAAAATTTTC
GGTGGGGCTTATACCCCGCCACTCGAGCGATTGCATTTCTTTGGGCGCGAATCGTCACGT
GTCAATCTGTTACTAACCACCTGTCAATAGGAAGCCGCCGAGCTCGGTAAGGGTTCTTTC
AAGTACGCCTGGGTTCTTGACAAGCTCAAGGCCGAGCGTGAGCGTGGTATCACCATCGA
TATCGCTCTCTGGAAGTTCGAGACTCCCCGCTACTATGTCACCGTCATTGGTATGTTGTCA
CTACTACCTCAGTCACTCACATTCTCATACTAACTCATCTATCAGACGCTCCCGGTCACCG
TGATTTCATCAAGAACATGATCATGGGGTACTTCCAA

Strain No. 8

TGACAGTCGACTCTGGCAAGTCGACCACTGTGAGTACTACCCTGGACGTTGAGCTTATCT
GCCATCGTGATCCTGACCAAGATCTGGCGGGGTACATCTTGGAAGACAACATGCTGACA
TCGCTTCACAGACCGGTCACTTGATCTACCAGTGCGGTGGTATCGACAAGCGAACCATCG
AGAAGTTCGAGAAGGTTAGTCACTTTCCCTTCGATCGCGCGTCCTCTGCCCACCGATTTC
ACTTGCGATTCGAAACGTGCCTGCTACCCCGCTCGAGACCAAAAATTTTGCGATATGACC
GTAATTTTTTTGGTGGGGCATTTACCCCGCCACTCGAGCGATGGGCGCGGTTTTGCCCTTT
CCTGTCCACAACCTCAATGAGCGCATTGTCACGTGTCAAGCAGCGACTAACCATTCGAC
AATAGGAAGCCGCTGAGCTCGGTAAGGGTTCCTTCAAGTACGCCTGGGTTCTTGACAAGC
TCAAGGCCGAGCGTGAGCGTGGTATCACCATCGATATTGCTCTCTGGAAGTTCGAGACTC
CTCGCTACTATGTCACCGTCATTGGTATGTTGTCGCTCATACCTCATCCTACTTCCTCATAC
TAACACATCATTCAGACGCTCCCGGTCACCGTGATTTCATCAAGAACATGATCATGGGTA
TTTCC

Strain No. 9

AGTCGAACTCTGGCAAGTCGACCACTGTGAGTACCACCGCATCCCAACCCCGCCGACAC
TTGGCGGGGTAGTTTCAAATTTCCAATGTGCTGACATACTTTGATAGACCGGTCACTTGAT
CTACCAGTGCGGTGGTATCGACAAGCGAACCATCGAGAAGTTCGAGAAGGTTGGTCTCA
TTTTCCTCGATCGCGCGCCCTTTTCCTTTCGAAATATCATTCGAATCGCACTCACACGACG
ACTCGATACGCGCCTGTTACCCCGCTCGAGGTCAAAAATTTTGCGGCTTTGTCGTAATTTT
TTTCCCTGGTGGGGCTCATACCCCGCCACTCGAGCGACAGGCGTTTGCCCTCTTCCCACA
AACCATTCCCTGGGCGCTCATCATCACGTGTCAACCAGTCACTAACCACCTGTCAATAGG
AAGCCGCCGAGCTCGGTAAGGGTTCCTTCAAGTACGCCTGGGTTCTTGACAAGCTCAAA
GCCGAGCGTGAGCGTGGTATCACCATTGATATCGCCCTCTGGAAGTTCGAGACTCCTCGC
TACTATGTCACCGTCATTGGTATGTTGTCACCACTGCTGTCATCACATTCTCATACTAACA
TGGCTATCAGACGCTCCCGGTCACCGTGATTTCATCAAGAACATGATCATGGGTTACCTT
TA

Strain No. 10

AGTCGACTCTGGCAAGTCGACCACTGTGAGTACATCTGCATCACAACCCCGCCCAGACTT
GGCGGGGTAGTTTCAATCATCATTTTTACTGACATGCTTTGACAGACCGGTCACTTGATCT
ACCAGTGCGGTGGTATCGACAAGCGAACCATCGAGAAGTTCGAGAAGGTTGGTCTCATT
TTCCTCGATCGCGCGCCCTTCTTCCCATCGACCCATCATTCGAATCGCTCTCATACGACGA
CTCGACAAGCGCCTGTTACCCCGCTCGAGTTCAAAAATTTTACGGCTGTGTCGTGATTTTT
TGATAGTGGGGCTCATACCCCGCCGCTCGAGTGACAGGCGCTTTTGCCCTTCCCACACAT
CCATTTACATGGGCGCGCATCATCACGTGTCAATCAGTCACTAACCACCTGTCAATAGGA
AGCCGCCGAGCTCGGTAAGGGTTCCTTCAAGTACGCCTGGGTTCTTGACAAGCTCAAAGC
CGAGCGTGAGCGTGGTATCACCATTGATATCGCTCTCTGGAAGTTCGAGACTCCTCGCTA
CTATGTCACCGTCATTGGTATGTTGTCACTATTGCCTTCATCACATTCTCATACTAACATG
CCTACCAGACGCTCCCGGTCACCGTGATTTCATCAAGAACATGATCATGGGGACTTTTCC

Strain No. 11

CTGTATCGGCCACGTCGACTCTGGCAAGTCGACCACTGTAAGTACAACCATCAGCGGGTT
GCTTATATGCACTCGGAATCCGCCAAACCTGGCGGGGTATCACCACAACATTTTGCTAAC
TTTTGACAGACCGGTCACTTGATCTACCAGTGCGGTGGTATCGACAAGCGAACCATCGAG
AAGTTCGAGAAGGTTAGTCAATATCCCTTCGATTACGCGCGCTCCCATCGATTCCCACGA
TTCGCTCCCTCACTCGAAACGCATCCATTACCCCGCTCGAGCCCGAGAATTTTGCGGTGC
GACCGTGATTTTTTTCTGGTGGGGTATCTTACCCCGCCACTCGAGTGACGGATGCGCTTGC
CCTGTTCCCACAAAACCTTACCACCCTGTCGCGCACTACATGTCTTGCAGTCACTAACCA
CTGGACAATAGGAAGCCGCCGAGCTCGGAAAGGGTTCCTTCAAGTACGCCTGGGTTCTT
GACAAGCTCAAAGCCGAGCGTGAGCGTGGTATCACCATTGATATCGCTCTCTGGAAGTTC
GAGACTCCTCGCTACTATGTCACCGTCATTGGTATGTTGTCACTGTCTCACACTATCATGC
TTGCATCATGCTAACATCTCTGTCAGATGCCCCCGGTCATCGTGATTTCATCAAGAACAT
GATCACTGGTACTTCC

Strain No. 12

ACTCGGCCACGTCGACTCTGGCAAGTCGACCACTGTGAGTACTACCCTTGACGATGAGCT
TATCGGCCATCGTAAACCCGGCCAAGACCTGGCGGGGGATTTCTCAAAGAAAACATGCT
GACATCGCTTCACAGACCGGTCACTTGATCTACCAGTGCGGTGGTATCGACAAGCGAAC
CATCGAGAAGTTCGAGAAGGTTAGTCACTTTTCCTTCTATCGCGCGTTCTTTGCCCATCGA
TTCCCCCCTACGACTCGAAACGTACCCGCTACCCCGCTCGAGCCCAAAAATTTTGCGATA
CGACCGTAATTTTTTCTGGTGGGGCATTTACCCCGCCACTCGAGCGGCGCGTTTCTGCCCT
CTCCCATTCCACAACCTCACTGAGCTCATCGTCACGTGTCAAGCAGTCACTAACCATCCG
ACAATAGGAAGCCGCTGAGCTCGGTAAGGGTTCCTTCAAGTACGCCTGGGTTCTTGACA
AGCTCAAGGCCGAGCGTGAGCGTGGTATCACCATCGATATCGCTCTCTGGAAGTTCGAG
ACTCCTCGCTACTATGTCACCGTCATTGGTATGTTGTCGCTCTTATTCCGTTCTATATCTTC
TATTACTAACACATCACATAGACGCTCCCGGTCACCGTGATTTCATCAAGAACATGATCA
CTGGTACTTCC

Strain No. 13

CGACTCTGGCAAGTCGACCACTGTGAGTACTCTCCTCGACAATGAGCATATCTGCCATCG
TCAATCCCGACCAAGACCTGGCGGGGTATTTCTCAAAGTCAACATACTGACATCGTTTCA
CAGACCGGTCACTTGATCTACCAGTGCGGTGGTATCGACAAGCGAACCATCGAGAAGTT
CGAGAAGGTTAGTCACTTTCCCTTCAATCGCGCGTCCTTTGCCCATCGATTTCCCCTACGA
CTCGAAACGTGCCCGCTACCCCGCTCGAGACCAAAAATTTTGCAATATGACCGTAATTTT
TTTTGGTGGGGCACTTACCCCGCCACTTGAGCGACGGGAGCGTTTGCCCTCTTACCATTCT
CACAACCTCAATGAGTGCGTCGTCACGTGTCAAGCAGTCACTAACCATTCAACAATAGG
AAGCCGCTGAGCTCGGTAAGGGTTCCTTCAAGTACGCCTGGGTTCTTGACAAGCTCAAGG
CCGAGCGTGAGCGTGGTATCACCATCGATATTGCTCTCTGGAAGTTCGAGACTCCTCGCT
ACTATGTCACCGTCATTGGTATGTTGTCGCTCATGCTTCATTCTACTTCTCTTCGTACTAAC
ATATCACTCAGACGCTCCCGGTCACCGTGATTTCATCAAGAACATGACC

Strain No. 14

GCAACGTCGACTCTGGCAAGTCGACCACTGTGAGTACCACCACATCCCAACCCCGCCGA
CACTTGGCGGGGTAGTTTCAAATTTCCAACGTGCTGACATACTTTGATAGACCGGTCACT
TGATCTACCAGTGCGGTGGTATCGACAAGCGAACCATCGAGAAGTTCGAGAAGGTTGGT
CTCATTTTCCTCGATCGCGCGCCTTTTTCCCTTTCGAAATATCATTCGAATCGCCCTCACAC
GACGACTCGATACGCGCCTGTTACCCCGCTCGAGGTCAAAAATTTTGCGGCTTTGTCGTA
AATTTTTTTCTGGTGGGGCTCATACCCCGCCACTCGAGCGACAGGCGTTTGCCCTCTTCCC
ACAAACCATTCCCTGGGCGCTCATCATCACGTGTCAACCAGTCACTAACCACCTGTCAAT
AGGAAGCCGCCGAGCTCGGTAAGGGTTCCTTCAAGTACGCCTGGGTTCTTGACAAGCTC
AAAGCCGAGCGTGAGCGTGGTATCACCATTGATATCGCCCTCTGGAAGTTCGAGACTCCT
CGCTACTATGTCACCGTCATTGGTATGTTGTCACCACTGCTGTCATCACATTCTCATACTA
ACATGGCTATCAGACGCTCCCGGTCACCGTGATTTCATCAAGAACATGATCACTGGGTAC
TT

Strain No. 15

CGCCACGTCGACTCTGGCAAGTCGACCACTGTGAGTACTACCCACGATGATTTGCTTATC
AGCAGTCATCAACCCCGCCAGATGTGGCGGGGTAATTTCAACTTGAATATTTGCTGACAA
GATTGCATAGACCGGTCACTTGATCTACCAGTGCGGTGGTATCGACAAGCGAACCATCG
AGAAGTTCGAGAAGGTTGGTTTCCATTTCCCCGATCGCACGCCCTCTACCCACCGATCCA
TCAGTCGAATCAGTTACGACGATTGAATATGCGCCTGTTACCCCGCTCGAGTACAAAATT
TTGCGGTTCAACCGTAATTTTTTTTGGTGGGGTTTCAACCCCGCCACTCGAGCGACAGAC
GTTTGCCCTCTTCCCAGAAACCCATGTCTTGTGCATCACGTGTCCATCAGCCACTAACCAC
CCGACAATAGGAAGCCGCCGAGCTCGGTAAGGGTTCCTTCAAGTACGCCTGGGTTCTTG
ACAAGCTCAAGGCTGAGCGTGAGCGTGGTATCACCATCGATATCGCCCTCTGGAAGTTC
GAGACTCCTCGCTACTATGTCACCGTCATTGGTACGTTATCGTCACTTACACTCAATACTT
TCTCATGCTAACATGTACTTCAGACGCTCCCGGTCACCGTGATTTCATCAAGAACATGAT
CACTGGTACTTC

Strain No. 16

ACTCTGGCAAGTCGACCACTGTGAGTACTACCCTCGACGATGGGCTTATCTGCTATCGGA
ACCCTGACCAAGACCTGGCGGGGTATTCCTCTCAAGACAACTTGCTGACATCGCTTGACA
GACCGGTCACTTGATCTACCAGTGCGGTGGTATCGACAAGCGAACCATCGAGAAGTTCG
AGAAGGTTAGTAACTTTCCCTTCGATCGCGCGTCCTTTGTATATCGATTTCCCCTACGACT
CGAAACGTGCCCGCTACCCCGCTCGAGACCAAAAATTTTGCGATATGACCGTAATTTTTT
TGGTGGGGCATTTACCCCGCCACTCGAGCGATGGGCGCGTTTTTGCCCTTTCCTATCCACA
CTTCAATGAGCGCAACATCACGTGTCAAGCAGTCACTAACCATCTGACAATAGGAAGCC
GCTGAGCTCGGTAAGGGTTCCTTCAAGTACGCCTGGGTTCTTGACAAGCTCAAGGCCGAG
CGTGAGCGTGGTATCACCATCGATATTGCTCTCTGGAAGTTCGAGACTCCCCGCTACTAT
GTCACCGTCATTGGTATGTTGTCGCTCACGCCTTACTCTAATTCCTGGTACTAACATGTCT
CTCAGACGCTCCCGGTCACCGTGACTTCATCAAGAACATGATCATGGTTACCTTCCAAAA
A

Strain No. 17

CGTCGACTCTGGCAGTCGACCACTGTGAGTACTACCCTCGACGATGAGCTTATCTGTCAT
CGTGATCCTGACCAAGATCTGGCGGGGTATATCTCAGAAGACAATATGCTGACATCGCTT
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TGAGCTCGGTAAGGGTTCCTTCAAGTACGCCTGGGTTCTTGACAAGCTCAAGGCCGAGCG
TGAGCGTGGTATCACCATCGATATTGCTCTCTGGAAGTTCGAGACTCCTCGCTACTATGTC
ACCGTCATTGGTATGTTGTCGCTCATGCTTCATTCTACTTATTCATACTAACATATCATTCA
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Strain No. 18

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CGGTCACCGTGATTTCATCAAGAACATGATCACTGGTACTTCCA

Strain No. 19

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TAACATATCATTCAGACGCTCCCGGTCACCGTGATTTCATCAAGAACATGATCACTGGGT
TACTT

Strain No. 20

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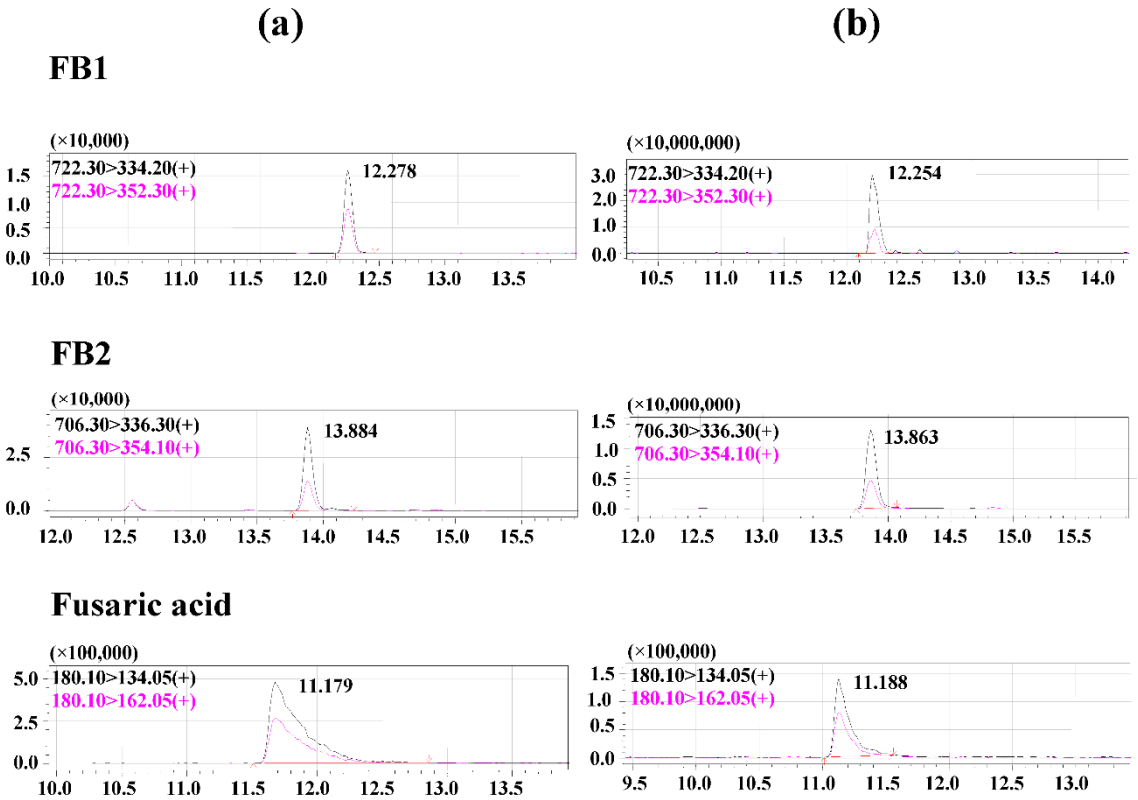

Figure S1. LC-MS/MS chromatogram of FB1, FB2 and fusaric acid ((**a**): standards; (**b**): samples: rice medium, *F. proliferatum*).

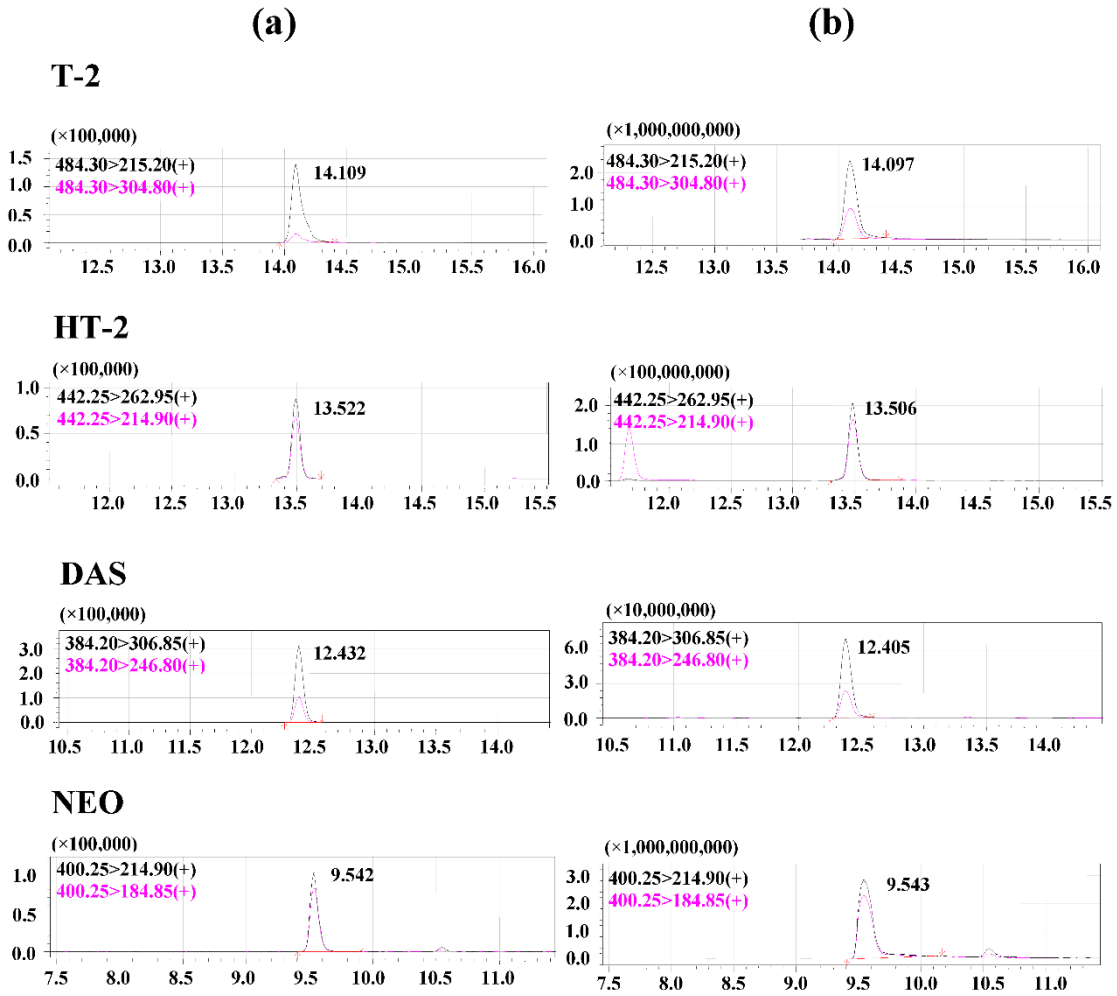

Figure S2. LC-MS/MS chromatogram of four type A trichothecenes ((**a**): standards; (**b**): samples: rice medium, *F. langsethiae*).

Figure S3. LC-MS/MS chromatogram of five type B trichothecenes ((**a**): standards; (**b**): samples: NIV, Fus-X: maize medium, *F. poae*; DON, ADONs: maize medium, *F. graminearum*).

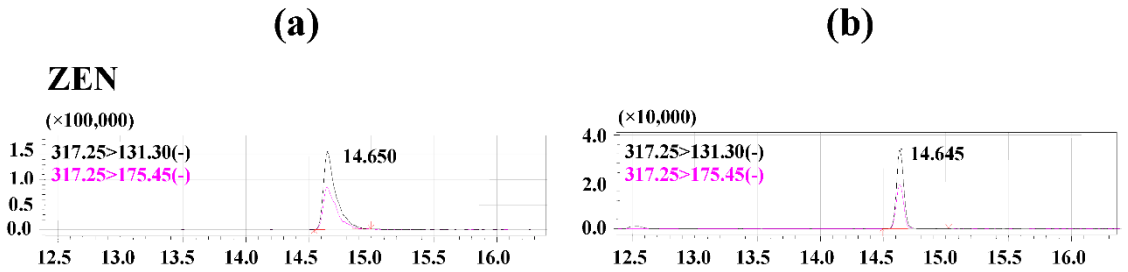

Figure S4. LC-MS/MS chromatogram of ZEN ((**a**): standards; (**b**): samples: rice medium, *F. graminearum*).