

Supporting Information

Inhibition of fungal growth and aflatoxin B1 synthesis in *Aspergillus flavus* by plasma-activated water

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Table S1. The list of primers and the corresponding clustered aflatoxin biosynthesis pathway genes showing enzymes involved and their functions in the study.

Target Gene	Sequences (5'—3')	Function in the Biosynthetic Pathway	Target Size (bp)
<i>β-Tubulin</i>	Forward: CTTGTTGACCAGGTTGTGGAT Reverse: GTCGCAGCCCTCAGCCT	Reference housekeeping gene	51
<i>aflD</i>	Forward: GTCCAAGCAACAGGCCAAGT Reverse: TCGTGCATGTTGGTGATGGT	Norsolorinic acid (NOR) → averantin (AVN)	66
<i>aflP</i>	Forward: GGCCGCCGCTTTGATCTAGG Reverse: ACCACGACCGCCGCC	Sterigmatocystin (ST) → O-methylsterigmatocystin (OMST)	123
<i>aflQ</i>	Forward: GTGTCCGCAGTGTCTAGCTT Reverse: GCTCAAAGGTCGCCAGAGTA	O-methylsterigmatocystin (OMST) → aflatoxin B1 (AFB1)	115
<i>aflR</i>	Forward: CTCAAGGTGCTGGCATGGTA Reverse: CAGCTGCCACTGTTGGTTTC	Pathway regulator	86
<i>aflS</i>	Forward: CTGCAGCTATATTGCCACACA Reverse: TAAACCCAGGCAGAGTTGGT	Pathway regulator	117

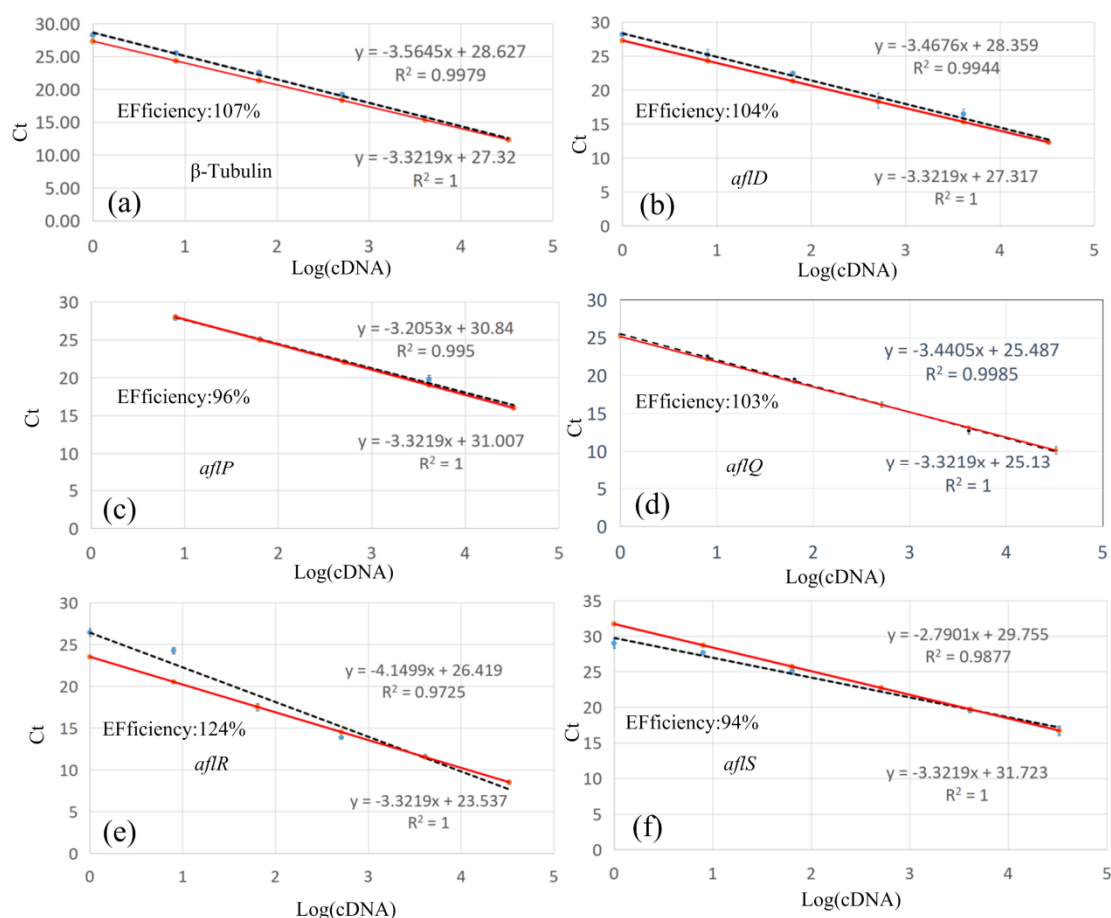


Figure S1: Representative standard curves and efficiency of each pair of primers. (a) *β -Tubulin*, (b) *aflD*, (c) *aflP*, (d) *aflQ*, (e) *aflR*, and (f) *aflS*. (Solid red lines denote the theoretical calculation curves. Dashed black lines indicate measurement curves)