

Supplementary Information

Antifungal profile and mechanism of bioinspired nanoscale magnesium against the agriculturally important pathogen *Fusarium oxysporum* f. sp. *niveum*

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Table S1. Primers used for bacterial identification and RT-qPCR analysis.

Genes	Accession No.	Names	Sequence (5'-3')
Bacterial identification			
<i>16S rRNA</i>		fD1	AGAGTTTGATCCTGGCTCAG
		rD1	AAGGAGGTGATCCAGCC
<i>rpoB</i>		rpoB-F	GGYTWYGAAGTNCGHGACGTDCA
		rpoB-R	TGACGYTGTCATGTTBGMRCCCATMA
RT-qPCR			
<i>FonOpm12</i>	EU603504	FonOpm12-RT-F	CGATTAGCGAAGACATTCACAAGACT
		FonOpm12-RT-R	ACGGTCAAGAAGATGCAGGGTAAAGGT
<i>ClRps10</i>	HM036339	ClRps10-RT-F	AGGCTCACCTAAAAGAAGG
		ClRps10-RT-R	GGTCAACACAAGGATCTTACT
<i>FonPEX2</i>	FOXG_01054	FonPEX2-RT-F	CATACGGAGCGGCTCTCCAA
		FonPEX2-RT-R	GCCAGTCCTCCCATCTCGTC
<i>FonPEX8</i>	FOXG_02249	FonPEX8-RT-F	TTCCGACCTTCGAGGATGC
		FonPEX8-RT-R	AGCGTCGCATGCATCAGTTG
<i>FonPEX10</i>	FOXG_01730	FonPEX10-RT-F	TGGAGAGCCTTCGCAAACGA
		FonPEX10-RT-R	AAGACGGCCGACCCAATCTC
<i>FonActin</i>	FOXG_01569	FonActin-RT-F	GAGGGACCGCTCTCGTCGT
		FonActin-RT-R	GGAGATCCAGACTGCCGCTCAG

Table S2. Isolates and their minimum inhibitory concentration (MIC) for MgSO₄.

Sr. #	Isolates	MIC values
1	NOT-1	0.65 M
2	NOT-2	0.80 M
3	NOT-3	0.80 M
4	NOT-4	1.25 M
5	NOT-5	0.50 M
6	NOT-6	0.50 M
7	NOT-7	0.50 M
8	NOT-8	1.0 M
9	NOT-9	0.50 M
10	NOT-10	1.40 M
11	NOT-11	1.25 M
12	NOT-12	0.80 M
13	NOT-13	0.50 M
14	NOT-14	0.50 M
15	NOT-15	0.50 M
16	NOT-16	0.50 M