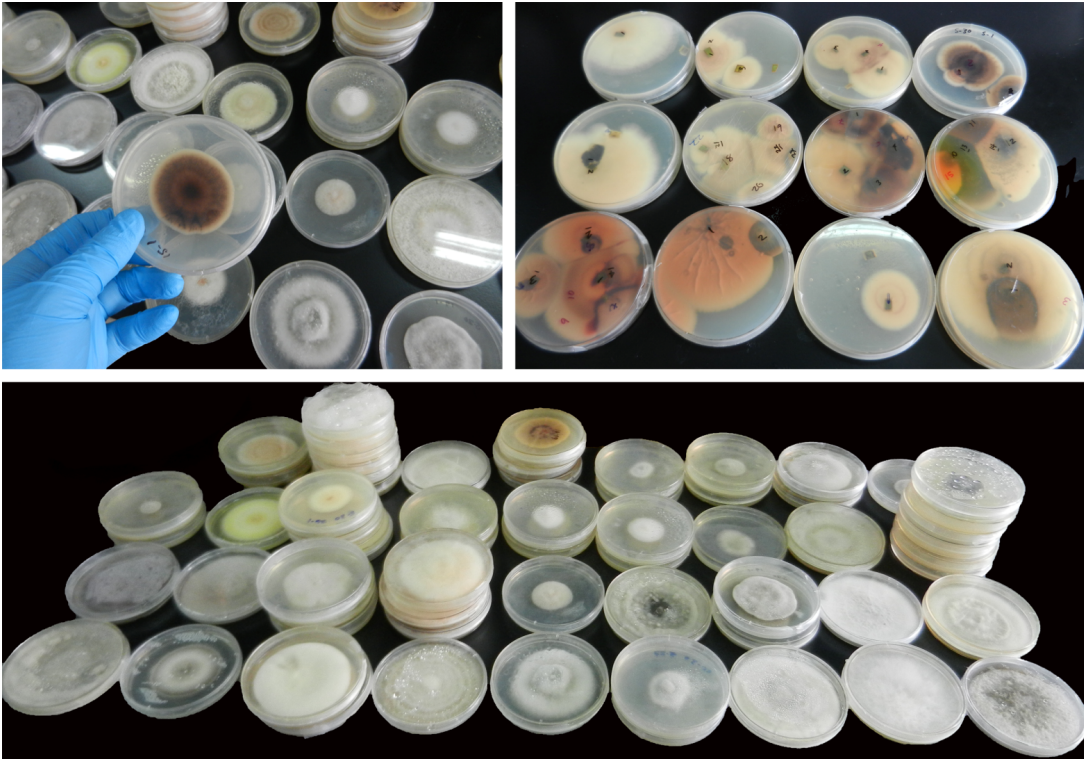


1 **Supplementary Data 1.** A total of 187 fungal strains were isolated from diseased
2 sugarcane. Photos show diverse colony growth patterns.

3



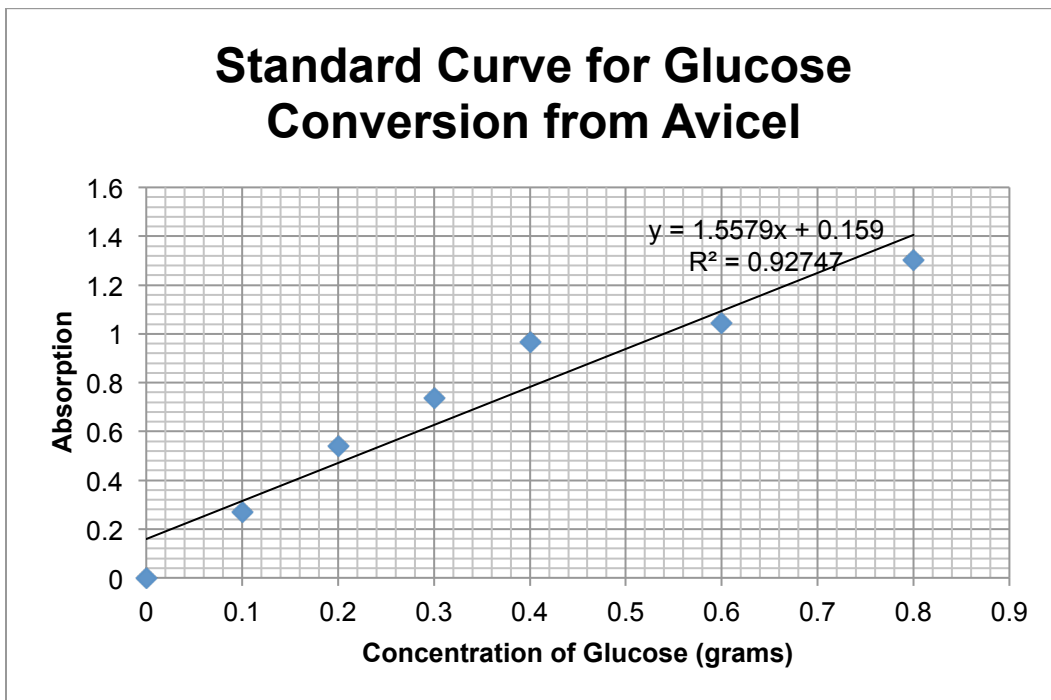
4

5

6

7

Supplementary Data 2. Standard curve for the conversion of Avicel to glucose



8

9 **Supplementary Data 3.** Primers used in this study
10

| Name | Sequence (5' – 3') | Reference |
|------|-----------------------|-------------------|
| ITS1 | TCCGTAGGTGAACCTGCGG | White et al. 1990 |
| ITS4 | TCCTCCGCTTATTGATATGC | White et al. 1990 |
| CAM1 | GARTWCAAGGAGGCCTTCTC | Wang et al. 2011 |
| CAM2 | TTTTTGCATCATGAGTTGGAC | Wang et al. 2011 |
| ELF1 | ATGGGTAAGGAAGACAAGAC | Wang et al. 2011 |
| ELF2 | GGAAGTACCAGTGATCATGTT | Wang et al. 2011 |

11

12 White, T. J., Bruns, T., Lee, S. and Taylor, J. W. (1990) Amplification and direct sequencing of fungal
13 ribosomal RNA genes for phylogenetics. In *PCR Protocols: A Guide to Methods and Applications*. pp.
14 315-322: Academic Press.

15 Wang H, Xiao M, Kong F, Chen, S. Dou, H.-T., Sorrell, T., Li, R.-Y. and Xu, Y.-C. (2011) Accurate and
16 practical identification of 20 *Fusarium* species by seven-locus sequence analysis and reverse line blot
17 hybridization, and an in vitro antifungal susceptibility study. *Journal of Clinical Microbiology*.
18 49:1890-1898.

19

20

21

22 **Supplementary Data 4.** Analysis of variance of the average lesion size produced by
23 fungal strains in sugarcane stalk. Based on the P-value, there is no significant difference
24 in the lesion size produced by a single inoculum of Strain 20 *Fusarium* versus those in
25 co-inoculation assays.

26

ANOVA

| Source of Variation | SS | df | MS | F | P-value | F crit |
|-----------------------|-------|----|-------|-------|--------------|--------|
| Between Groups | 3.339 | 4 | 0.834 | 1.051 | 0.395 | 2.649 |
| Within Groups | 27 | 34 | 0.794 | | | |
| Total | 30.34 | 38 | | | | |

27