Table S1 GenBank accession number of the nine potential fungal taxa based on their cellulolytic enzyme production.

| Fungal species          | Isolate | GenBank Accession No.¹ |
|-------------------------|---------|------------------------|
|                         |         | ITS        | TUB        | CaM        | RPB2       | TEF-1α     |
| Aspergillus terreus     | AG438   | KY321322  | KY321331  | KY321322  | N/A        | N/A        |
| Penicillium oxalicum    | AG452   | KY321323  | KY321322  | KY321322  | N/A        | N/A        |
| Aspergillus terreus     | AG466   | KY321324  | KY321322  | KY321322  | N/A        | N/A        |
| Aspergillus oxalicum    | AG496   | KY321325  | KY321322  | KY321322  | N/A        | N/A        |
| Penicillium oxalicum    | AG498   | KY321326  | N/A       | KY321322  | N/A        | N/A        |
| Aspergillus terreus     | AG499   | KY321327  | KY321322  | KY321322  | N/A        | N/A        |
| Trichoderma afroharzianum | AG500 | KY321328  | KY321322  | KY321322  | KY321322  | KY321322  |
| Talaromyces verruculosus | AG548 | KY321329  | KY321322  | KY321322  | N/A        | N/A        |
| Penicillium oxalicum    | AG559   | KY321330  | KY321322  | KY321322  | N/A        | N/A        |

¹ ITS = internal transcribed spacer; TUB = beta tubulin; CaM = calmodulin; RPB2 = second largest subunit of RNA polymerase II; TEF-1α = translation elongation factor 1α; N/A = information is not provided
**Table S2** Characteristics of lignocellulosic biomasses before and after pretreatment.

| Lignocellulosic biomass  | Native | Pretreated |
|--------------------------|--------|------------|
| Sugarcane trash          | ![Image](image1.png) | ![Image](image2.png) |
| Sugarcane bagasse        | ![Image](image3.png) | ![Image](image4.png) |
| Cassava pulp             | ![Image](image5.png) | ![Image](image6.png) |
| Coffee silver skin       | ![Image](image7.png) | ![Image](image8.png) |
Figure S1 Colonies from left (obverse) to right (reverse) on PDA after a 1-week incubation at room temperature: (A–C) *Aspergillus terreus*: (A) AG466, (B) AG438, and (C) AG499 (D–G) *Penicillium oxalicum*: (D) AG452, (E) AG496, (F) AG498, and (G) AG559 (H) *Trichoderma afroharzianum* (AG500) (I) *Talaromyces siamensis* (AG548).