

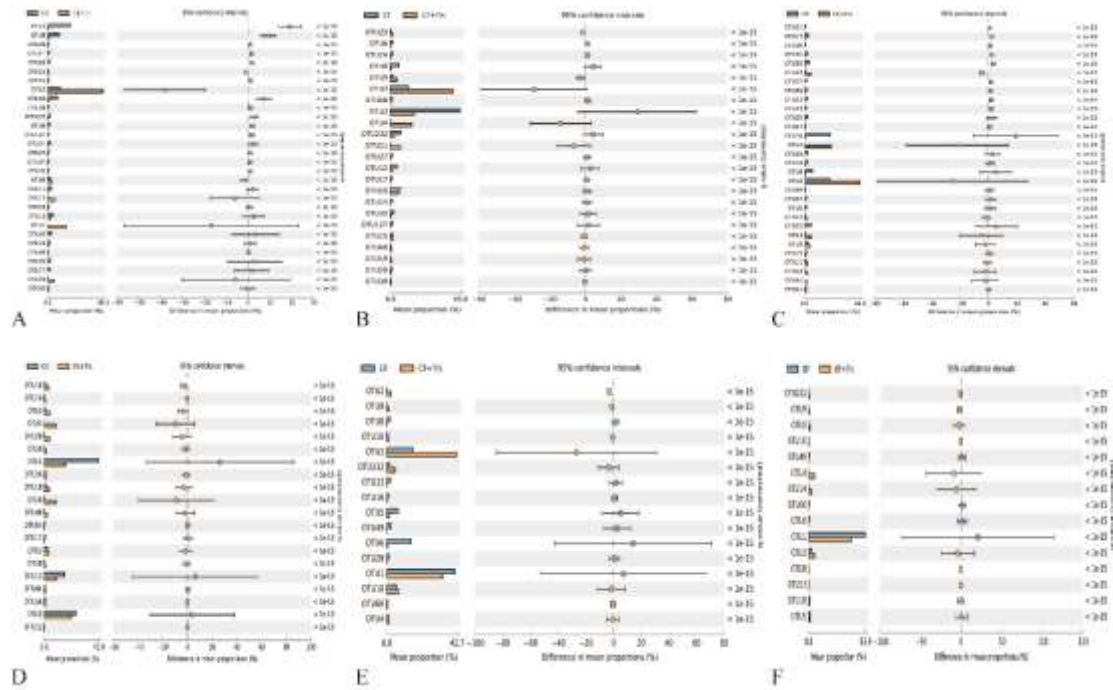
Appendix A Properties of raw materials used in this study.

| Raw materials | Moisture content (%) | Organic matter (%) | N (g/kg) | P ₂ O ₅ (g/kg) | K ₂ O (g/kg) |
|-------------------|----------------------|--------------------|----------|--------------------------------------|-------------------------|
| Stevia residue | 6.23 | 91.2 | 6.3 | 10.1 | 9.2 |
| Rice bran | 8.65 | 88.5 | 4.2 | 6.3 | 4.1 |
| Wheat bran | 8.66 | 81.2 | 5.9 | 5.1 | 4.3 |
| Rice chaff | 11.2 | 80.3 | 4.4 | 1.1 | 7.3 |
| Rice straw powder | 8.02 | 76.8 | 6.2 | 1.5 | 8.8 |

Appendix B Barcode information of different treatments.

| Treatments | Rhizosphere barcode | Bulk barcode |
|-------------------|---------------------|--------------|
| CK1 | ACACAGT | CTCACGA |
| CK2 | ACTCTGA | CTCAGAC |
| CK3 | ACTGACT | CTCTCAG |
| CK+ <i>Tri</i> .1 | AGTCACA | CTCTGTA |
| CK+ <i>Tri</i> .2 | TCAGAGA | CTGATGT |
| CK+ <i>Tri</i> .3 | TGACTGA | GAACACT |
| CF1 | TGAGACT | GATCTCA |
| CF2 | TGTCAGT | GACATCT |
| CF3 | TGTGTCA | GACAGTA |
| CF+ <i>Tri</i> .1 | CATCAGA | GACTCAC |
| CF+ <i>Tri</i> .2 | CACAAGT | GTACAGA |
| CF+ <i>Tri</i> .3 | CACACTG | GTAGTCT |
| OF1 | CACTGAT | GTCACAT |
| OF2 | CAGATCA | GTCTAGT |
| OF3 | CAGACAT | GTGAACA |
| OF+ <i>Tri</i> .1 | CAGAGTC | GTGTCAA |
| OF+ <i>Tri</i> .2 | CAGTACT | AACTGTC |
| OF+ <i>Tri</i> .3 | CAGTCTA | AACGTGT |

Notes: CK, no fertilizer; CK+*Tri*., *Trichoderma guizhouense* NJAU 4742 (*Tri*.) applied with CK; CF, chemical fertilizer; CF + *Tri*., *Tri*. applied with CF; OF, organic fertilizer; OF + *Tri*., *Tri*. applied with OF.



Appendix C Stamp analysis of abundant OTUs (relative abundance more than 0.5%) between CK and CK+Tri. treatments or between CF and CF+Tri. or between OF and OF+Tri. in bulk (A, B and C) and rhizosphere (D, E and F) soil. CK, no fertilizer; CK+Tri., *Trichoderma guizhouense* NJAU 4742 (Tri.) applied with CK; CF, chemical fertilizer; CF + Tri., Tri. applied with CF; OF, organic fertilizer; OF + Tri., Tri. applied with OF.

Appendix D Classification information of the response OTUs.

| OTU ID | Phylum | Class | Order | Family | Genus |
|--------|------------|-----------------|-------------|---------------|--------------------------|
| OTU_2 | Ascomycota | Sordariomycetes | Sordariales | Chaetomiaceae | <i>Chaetomium</i> |
| OTU_3 | Ascomycota | Pezizomycetes | Pezizales | Rhizinaceae | <i>Phymatotrichopsis</i> |
| OTU_4 | Ascomycota | Sordariomycetes | Hypocreales | Hypocreaceae | <i>Trichoderma</i> |
| OTU_9 | Ascomycota | Sordariomycetes | Sordariales | Chaetomiaceae | <i>Chaetomium</i> |