

**Supplementary Table 3.** Comparison of soil physicochemical properties between healthy and infected soils from banana farm. All data are presented as the mean (standard deviation;  $n = 5$ ).

| Soil properties (unit)            | Healthy                  | Infected               | <i>p</i> -value |
|-----------------------------------|--------------------------|------------------------|-----------------|
| pH                                | 5.087 ± 0.506            | 5.049 ± 0.435          | 0.859           |
| MC (%)                            | 6.312 ± 0.574            | 5.938 ± 0.296          | 0.084           |
| TOC (%)                           | 1.739 ± 1.064            | 2.191 ± 0.833          | 0.123           |
| TON (%)                           | 0.122 ± 0.039            | 0.137 ± 0.037          | 0.389           |
| P (mg/kg)                         | 20.832 ± 21.316          | 20.944 ± 12.103        | 0.063           |
| K (mg/kg)                         | 213.864 ± 124.779        | 170.634 ± 34.189       | 0.853           |
| Ca (mg/kg)                        | 1765.560 ± 267.550       | 1832.1 ± 390.910       | 0.662           |
| <b>Mg (mg/kg)</b>                 | <b>2047.00 ± 414.026</b> | <b>1719.5 ± 245.86</b> | <b>0.045*</b>   |
| Fe (mg/kg)                        | 477.44 ± 146.104         | 443.70 ± 99.786        | 0.554           |
| Mn (mg/kg)                        | 189.86 ± 100.009         | 166.64 ± 63.428        | 0.543           |
| Zn (mg/kg)                        | 20.88 ± 4.736            | 20.92 ± 3.047          | 0.529           |
| Cu (mg/kg)                        | 0.197 ± 0.112            | 0.204 ± 0.109          | 0.889           |
| <b>CEC (meq/100g)</b>             | <b>16.241 ± 1.841</b>    | <b>15.563 ± 0.223</b>  | <b>0.002**</b>  |
| OM (%)                            | 14.202 ± 1.7017          | 14.456 ± 0.665         | 0.218           |
| Clay (%)                          | 63.00 ± 1.581            | 62.00 ± 4.048          | 0.476           |
| Coarse Sand (%)                   | 1.00 ± 0.708             | 0.69 ± 0.360           | 0.28            |
| Fine sand (%)                     | 19.65 ± 2.399            | 19.00 ± 1.497          | 0.477           |
| Silt (%)                          | 28.5 ± 2.934             | 30.0 ± 3.54            | 0.19            |
| Bulk density (g/cm <sup>3</sup> ) | 0.955 ± 0.042            | 0.921 ± 0.04           | 0.075           |
| Air porosity (%)                  | 64.181 ± 1.543           | 65.255 ± 1.570         | 0.105           |

Statistical significance was assessed by T-test and significant differences were accepted when  $P < 0.05$  between the two groups.  $P < 0.05$  (\*) and  $P < 0.01$  (\*\*).