

**Table S1 Change of nutrients in rhizosphere soil of healthy and diseased plants**

|    | SOM<br>(g kg <sup>-1</sup> ) | AP<br>(mg kg <sup>-1</sup> ) | AK<br>(mg kg <sup>-1</sup> ) | TN<br>(g kg <sup>-1</sup> ) | TP<br>(g kg <sup>-1</sup> ) | NH <sub>4</sub> <sup>+</sup> -N<br>(mg kg <sup>-1</sup> ) | NO <sub>3</sub> <sup>-</sup> -N<br>(mg kg <sup>-1</sup> ) |
|----|------------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|---|---|
| HP | 16.80±1.41a                  | 68.12±4.23b                  | 155.78±10.04 <sup>a</sup>    | 6.78±0.57a                  | 1.19±0.11a                  | 6.59±0.54a  | 3.25±0.16a  |
| LP | 14.68±1.12b                  | 106.53±6.03a                 | 119.36±7.36b                 | 3.21±0.24b                  | 0.83±0.05b                  | 6.55±0.38a  | 2.17±0.24a  |

Note: Different letters mean significantly different based on  $P < 0.05$ . (Values are presented as mean  $\pm$  SE (n = 3); “LP” represents zoysiagrass grown with ZS-1 strain invasion; “HP” represents zoysiagrass grown without ZS-1 strain invasion; “SOM” represents soil organic matter; “AP” represents available phosphorus; “AK” represents available potassium; “TN” represents total nitrogen; “TP” represents total phosphorus.)