**Table S2** Envfit analysis of the correlations between diazotrophic communities and soil factors

|  |  |  |  |
| --- | --- | --- | --- |
|  | *R*2 | *P* |  |
| pH | 0.065 | 0.661 |  |
| Total N | 0.151 | 0.334 |  |
| Total C | 0.288 | 0.100 |  |
| C/N | 0.291 | 0.101 |  |
| Total P | 0.038 | 0.784 |  |
| NH4+-N | 0.039 | 0.767 |  |
| NO3--N | **0.378a** | **0.046** |  |
| Available P | **0.483** | **0.017** |  |
| Available K | **0.517** | **0.008** |  |
| Total K | 0.272 | 0.133 |  |

a Values in bold indicate significant correlation (*P* < 0.05).