**Table S8.** Standardized total, direct and indirect effects for the group *autumn.* ‘Total effects’ are the sum of all direct and indirect effects. ‘Direct effects’ are the direct effects of one variable to another variable and ‘Indirect effects’ are sum of all products affecting one variable (e.g., the indirect effect of Habitat diversity on Multifunctionality is the product of the path between Habitat diversity 🡪 Bacterial diversity, and Bacterial diversity 🡪 Multifunctionality).

**Total standardized effects**

|  |  |  |
| --- | --- | --- |
|  | Habitat diversity | Bacterial diversity |
| Bacterial diversity | 0.445 |  |
| Multifunctionality | 0.461 | 0.366 |

**Direct standardized effects**

|  |  |  |
| --- | --- | --- |
|  | Habitat diversity | Bacterial diversity |
| Bacterial diversity | 0.445 |  |
| Multifunctionality | 0.298 | 0.366 |

**Indirect standardized effects**

|  |  |  |
| --- | --- | --- |
|  | Habitat diversity | Bacterial diversity |
| Bacterial diversity |  |  |
| Multifunctionality | 0.163 |  |