Table 5 Gut microbial α-diversity in *V. stejnegeri* across three populations

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| --- | --- | --- | --- | --- | --- | --- |
| Population | Alpha diversity index | | | | | |
| Abundance-based coverage estimation, ACE | Simpson’s diversity index | Chao1 estimator | Shannon-Weiner index | Observed species | Goods’s coverage index |
| Anhui | 10 257.73 ± 1 375.21 | 0.93 ± 0.03 | 10 296.94 ± 1 486.57 | 4.02 ± 0.82 | 9 351.33 ± 2 330.35 | 0.9996 ± 0.0002 |
| Guizhou | 9 166.42 ± 1 592.00 | 0.91 ± 0.01 | 9 319.98 ± 1 322.57 | 3.13 ± 0.33 | 7 731.8 ± 1 718.51 | 0.9994 ± 0.0001 |
| Hunan | 9 208.47 ± 468.36 | 0.92 ± 0.01 | 9 120.22 ± 174.62 | 3.15 ± 0.07 | 6 891.33 ± 152.53 | 0.9992 ± 0.0001 |