|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Gene type** | **locus** | **Strain type** | ***dS*** | ***dN*** |
| NV genes | *cca* | C# | 0.0625 | 0.00646 |
| N$ | 0.0649 | 0.00704 |
| A\* | 0.0832 | 0.00719 |
| *trpA* | C | 0.0472 | 0.00299 |
| N | 0.0338 | 0.00338 |
| A | 0.0444 | 0.00356 |
| Virulence genes | *lssD* | C | 0.2076 | 0.01042 |
| N | 0.3091 | 0.01093 |
| A | 0.2470 | 0.00982 |
| *lspE* | C | 0.1471 | 0.00243 |
| N | 0.1749 | 0.00661 |
| A | 0.1501 | 0.00511 |
| *icmK* | C | 0.1250 | 0.01142 |
| N | 0.1160 | 0.02951 |
| A | 0.1244 | 0.01995 |

**Table S3.** **Summary of *dS* and *dN* values of the genes in different types of *L. pneumophila* isolates.**

# C indicates clinical isolates

$ N indicates natural environmental isolates

\* A indicates artificial environmental isolates