Supplementary Table 3. Coverage on mapping to the capsular operon reference sequence for the next hit after serotype 37 *tts* during *Streptococcus pneumoniae* serotyping workflow.

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| --- | --- | --- | --- |
| Isolate number | Species | Second hit serotype reference | % coverage |
| PHESPV0789 | *Streptococcus pneumoniae* | 33A | 98.3 |
| PHESPV1119 | *Streptococcus pneumoniae* | 33A | 98.3 |
| PHESPD0344 | *Streptococcus pneumoniae* | 33A | 98.1 |
| PHESPV0691 | *Streptococcus pneumoniae* | 33A | 98.0 |
| PHESPD0383 | *Streptococcus pneumoniae* | 33A | 98.0 |
| PHESPD0356 | *Streptococcus pneumoniae* | 33A | 97.9 |
| PHESPD0363 | *Streptococcus pneumoniae* | 33A | 97.8 |
| SSI-37 | *Streptococcus pneumoniae* | 33A | 97.7 |
| PHESPD0355 | *Streptococcus pneumoniae* | 33A | 97.7 |
| PHESPD0338 | *Streptococcus pneumoniae* | 33A | 97.1 |
| PHESPV1405 | *Streptococcus pneumoniae* | 33F | 96.9 |
| PHESPV1034 | *Streptococcus pneumoniae* | 33F | 96.4 |
| PHENP00005 | *Streptococcu*s sp. | 36 | 19.6 |
| PHESPD0357 | *Streptococcus* sp. | 25A/25F | 13.7 |
| PHENP00003 | *Streptococcus* sp. | 25A | 9.3 |
| PHENP00006 | *Streptococcus* sp. | 36 | 9.2 |
| PHENP00007 | *Streptococcus* sp. | 25A/25F | 8.7 |
| PHENP00002 | *Streptococcus* sp. | 1 | 8.6 |
| PHENP00001 | *Streptococcus* sp. | 1 | 8.6 |
| BAA-960T | S*treptococcus pseudopneumoniae* | 36\* | 26.4 |

\*Top hit was always serotype 37 *tts* gene except for BAA-960T which had 0% coverage for *tts*, therefore the serotype in the table is the top hit serotype.