|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table S2. Primers Used for Multilocus Sequence Typing** | | | | |
|  | | | | |
|  |  |  |  |  |
| **Locus** | **Primer** | **Direction** | **Sequence (5’ – 3’)** | **Reference** |
|  |  |  |  |  |
|  |  |  |  |  |
| *aroE* | aroE\_csfF | F | CGTTTAGCTGCAGTTGTTGC | 1 |
|  | aroE\_csfR | R | CCCACACTGGTGGCATTAAC | 1 |
|  |  |  |  |  |
| *gdh* | gdh\_F | F | GGACAAACCAGCNAGYTT | 2 |
|  | gdh\_R | R | GCTTGAGGTCCCATRCTNCC | 2 |
|  | Nepal\_gdhF | F | CTACAACTTCTTTCGCTCCT | --a |
|  | Nepal\_gdhR | R | GGTGCCAAATGGACTTGGCA | --a |
|  |  |  |  |  |
| *gki* | gki\_F | F | GGCATTGGAATGGGATCACC | 2 |
|  | gki\_R | R | TCTCCCGCAGCTGACAC | 2 |
|  |  |  |  |  |
| *recP* | recP\_F | F | GCCAACTCAGGTCATCCAGG | 2 |
|  | recP\_extR | R | AGATGGCTTGCCTGAAGC | --b |
|  |  |  |  |  |
| *spi* | spi\_extF | F | CGCTTAGAAAGGTAAGTTATGA | --b |
|  | spi\_R | R | GTGATTGGCCAGAAGCGGAA | 2 |
|  |  |  |  |  |
| *xpt* | xpt\_csfF | F | CCACTACAACGGGAAATATTTGA | 1 |
|  | xpt\_extR | R | CTTGAGTTTGCATTAGAGATCTGC | --b |
|  |  |  |  |  |
| *ddl* | ddl\_extF | F | AGCGTGTTCTGGAATCTGC | --b |
|  | ddl\_extR | R | AGGTCAACCAAACGCTCG | --b |

1. The standard *gdh* MLST primers did not produce a PCR amplicon for some isolates; therefore, alternative *gdh* primers were designed for this study.
2. Redesigned original MLST primer to accommodate newer generation sequencing machines.

References:

1. Enright MC, Knox K, Griffiths D, Crook DW, Spratt BG. (2000) Molecular typing of bacteria directly from cerebrospinal fluid. Eur J Clin Microbiol Infect Dis 19: 627-630.
2. Enright MC, Spratt BG. (1998) A multilocus sequence typing scheme for *Streptococcus pneumoniae*: identification of clones associated with serious invasive disease. Microbiology 144: 3049-3060.