**Supplementary Table 1. MIC interpretive breakpoints used in *N. meningitidis* for the antimicrobials used in this study**

a Interpretive breakpoints from [24]

Susceptible

Intermediate

Resistant

Antimicrobial

Ceftriaxone

≤0.12

Ciprofloxacin

≤0.03

0.06

≥0.12

Penicillin G

≤0.06

0.12-0.25

≥0.5

Rifampin

≤0.5

1.0

≥2.0

Azithromycin

≤2.0

MIC Interpretive Criteria (µg/mL)a

**Supplementary Table 2. Primers used for amplifying the *penA* gene and 717 nucleotides of the *rpoB* gene in *N. meningitidis***

|  |  |  |
| --- | --- | --- |
|  |  |  |
| **Gene** | **Forward** | **Reverse** |
| *penA* amplification and sequencing | 5’-ATGTTGATTAAGAGCGAATATAAGCC | 5’-TTAAGACGGTGTTTTGACGG |
| *penA* 1 sequencing | 5’-CGATATTGACGGCAAAGG | 5’-AATGCCCAAGATGTTCAG |
| *penA* 4.1 sequencing | 5’-CAGGCRACGATGTCTTTC\* | 5’-ATACCGCGCACATCCAAAG |
| *penA* R3 sequencing |  | 5’-CCTTTGCCGTCAATATCG |
| *rpoB* amplification | 5’-CGATTTGTCCCGCGTAGGCCGTATG | 5’-CACGACAGGTAACCAAATCGC |
| *rpoB* sequencing | 5’-GCGTCGAAGATATTGTCG | 5’-CCTGTGCAATCACATAGC |

\*R is an equal mixture of A and G nucleotides

**Supplementary Table 3. GenBank accession numbers for *N. meningitidis* whole gene *penA* sequences**

