

Supplementary Table 1: Primers sequence for amplifying of *M. tuberculosis* drug resistance genes.

| Drug target | Gene          | Primer sequence                                                             | Fragment size | Target region                        |
|-------------|---------------|-----------------------------------------------------------------------------|---------------|--------------------------------------|
| STR         | <i>rpsL</i>   | F-rpsL: 5'-GAATCGAGTTTGAGGCAAGC-3'<br>R-rpsL: 5'-TCCCCTTCAACAGAACCTTG-3'    | 583bp         | Full length gene                     |
|             | <i>rrs-F1</i> | F-rrs: 5'-AGGTGTGGGTTTCCTTCCTT-3'<br>R-rrs: 5'-AGTGTGTTGGTGGCCAACTT-3'      | 829bp         | Loops 530 & 915                      |
| INH         | <i>katG</i>   | F-kaG1: 5'-CTTCTCCTCATCCCCGTCT-3'<br>R-kaG1: 5'-ATTCGCACCCTGGAAGAGAT-3'     | 843bp         | Full length gene                     |
|             |               | F-kaG2: 5'-CGCCTTTGCTGCTTTCTCTA-3'<br>R-kaG2: 5'-GCGGTCACACTTTCGGTAA-3'     | 872bp         |                                      |
|             |               | F-kaG3: 5'-GTGCCATACGAGCTCTTCCA-3'<br>R-kaG3: 5'-CCCGATAACACCAACTCCTG-3'    | 948bp         |                                      |
|             | <i>inhA</i>   | F-PiA: 5'-GCGACATACCTGCTGCGCAA-3'<br>R-PiA: 5'-ATCCCCCGGTTTCTCCGGT-3'       | 523bp         | Promoter region                      |
|             |               | F-inhA1: 5'-CTTCCGAGGATGCGAGCTAT-3'<br>R-inhA1: 5'-ACCGTCATCCAGTTGTAGGC-3'  | 577bp         | Full length gene                     |
|             |               | F-inhA2: 5'-CATCTCGGCGTATTCGTATG-3'<br>R-inhA2: 5'-ACCGAAATGCAGGTAGTGCT-3'  | 600bp         |                                      |
|             |               | F-inhA2: 5'-GCTCATATCGAGAATGCTTGC-3'<br>R-inhA2: 5'-GCGGCCTTGAGCTTTTCTAT-3' | 849bp         |                                      |
|             | <i>ahpC</i>   |                                                                             |               |                                      |
| RIF         | <i>rpoB</i>   | F-rpoB1: 5'-GCAGACGCTGTTGGAAAAC-3'<br>R-rpoB1: 5'-GCTCCAGGAAGGGAATCATC-3'   | 920bp         | Clusters I (including RRDR), II, III |
|             |               | F-rpoB2: 5'-GAGCCAATTCATGGACCAG-3'<br>R-rpoB2: 5'-CGTTGTCGTGCATCACAGT-3'    | 686bp         |                                      |
| EMB         | <i>embB</i>   | F-embB: 5'-TGACCGACGCCGTGGTGATA-3<br>R-embB: 5'-GCCATGAAACCGGCCACGAT-3      | 1312bp        | ERDR                                 |
|             | <i>embC</i>   | F-embC: 5'-GTGCTTGTGGTGCGTAATGT-3<br>R-embC: 5'-AGCACCAGGTCAGCAGGAT-3       | 844bp         |                                      |
| PZA         | <i>pncA</i>   | F-pncA 5'-CGGATTTGTCGCTCACTAC-3'<br>R-pncA 5'-GCCGGAGACGATATCCAGAT-3'       | 960bp         | Full length gene                     |
|             |               | R-tlyA 5'-CAGCAGAACACTGCGATGAG-3'                                           |               |                                      |

STR (Streptomycin), INH (Isoniazid), RIF (Rifampicin), EMB (Ethambutol), PZAR (Pyrazinamide)