

| Panel (gen len Mbp) | Phenotype | Panel size | k-mers in M | Unitigs in M | Patterns ¹ in M | Runtime on 1 core (mem GB) |
|---------------------|---------------|------------|-------------|--------------|----------------------------|----------------------------|
| TB (4.4) | ethambutol | 1041 | 8.22 | 0.36 | 0.05 | 1h28m (3.5) |
| | streptomycin | 1166 | 8.32 | 0.37 | 0.05 | 1h40m (4) |
| | rifampicin | 1197 | 8.29 | 0.37 | 0.05 | 1h42m (4.1) |
| | ethionamide | 420 | 5.74 | 0.13 | 0.02 | 32m (3.4) |
| SA (2.7-3.1) | ciprofloxacin | 991 | 23.13 | 1.12 | 0.48 | 2h15m (11) |
| | erythromycin | 991 | 23.13 | 1.12 | 0.48 | 2h10m (11) |
| | methicillin | 501 | 17.85 | 0.81 | 0.30 | 51m (4.1) |
| PA (5.8-7.6) | meropenem | 280 | 54.46 | 2.36 | 1.01 | 1h37m (7.6) |
| | levofloxacin | 117 | 41.40 | 1.70 | 0.64 | 42m (2.9) |
| | amikacin | 280 | 54.46 | 2.36 | 1.01 | 1h37m (7.6) |

¹Patterns are the columns of the X matrix, containing the unique unitig minor allele description profiles (see *Methods* section). Association tests are computed on the patterns.