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| **Supplemental File 1: Growth conditions for the phenotypic profiling.**  |  |
|  | **Sample name** | **Concentration (µg/mL unless otherwise noted)** | **MICC (µg/mL unless otherwise noted)** | **Time to read OD 0.5 (hours)** |
|  | 1g\_Aa |  |  |  |
|  | 1g\_Ba |  |  |  |
|  | 1g\_Ca |  |  |  |
|   | 11g\_Ab |  |  |  |
|   | 11g\_Bb |  |  |  |
|   | Ampicillin (Amp) | 0.15 | 0.625 | 13.44 |
|   | Ampicillin\_H (Amp\_H) | 0.2 | 0.625 | 16 |
|   | Bacitracin (Bacit) | 0.1 | 0.125 | 13 |
|   | Cefsulodin (Cef) | 2.5 | 6.25 | 14 |
|   | Cefsulodin\_H (Cef\_H) | 3 | 6.25 | 15.33 |
|   | Cephalexin (Ceph) | 0.2 | 0.5 | 13 |
|   | Cycloserine (Cyclo) | 37 | 50 | 14 |
|   | Fosfomycin (Fosfo) | 26 | 63 | 12.75 |
|   | Lysozyme (Lyso) | 30 | 125 | 13 |
|   | Lysozyme\_H (Lyso\_H) | 40 | 125 | 14.75 |
|   | Meropenem (Mero) | 0.04 | 0.078 | 13 |
|   | Meropenem\_H (Mero\_H) | 0.05 | 0.078 | 16.5 |
|   | Nisin (Nisin) | 1.8 | 10 | 14.5 |
|   | Nisin\_H (Nisin\_H) | 2 | 10 | 15 |
|   | Penicillin G (PenG) | 0.15 | 0.25 | 14.5 |
|   | Vancomycin (Vanco) | 0.2 | 0.31 | 12 |
|   | Vancomycin\_H (Vanco\_H) | 0.4 | 0.31 | 14.25 |
|   | Ethambutol (Emb) | 0.2 | 0.5 | 15.66 |
|   | BTZ043 (BTZ043) | 0.045 | 0.08 | 14.3 |
|   | BTZ043\_H (BTZ043\_H) | 0.05 | 0.08 | 15.5 |
|   | Novobiocin (Novo) | 5 | 12.5 | 13 |
|   | Novobiocin\_H (Novo) | 5.5 | 12.5 | 15.15 |
|   | Rifampicin (Rif) | 0.00125 | 0.01 | 12.25 |
|   | Rifampicin\_H (Rif\_H) | 0.003 | 0.01 | 15 |
|   | Chloramphenicol (Cam) | 0.7 | 1.56 | 15 |
|   | Chloramphenicol\_H (Cam\_H) | 1 | 1.56 | 15.5 |
|   | Erythromycin (Erythro) | 0.06 | 0.25 | 14.25 |
|   | Erythromycin\_H (Erythro\_H) | 0.08 | 0.25 | 15.33 |
|   | Streptomycin (Strep) | 0.5 | 0.781 | 14.66 |
|   | Strepomycin\_H (Strep\_H) | 0.6 | 0.781 | 15.25 |
|   | Tetracycline (Tet) | 0.006 | 0.0125 | 13.5 |
|   | Tetcycline\_H (Tet\_H) | 0.008 | 0.0125 | 14.5 |
|   | Heat (Heat) | 36° C |  | 11.5 |
|   | MgCl2 (MgCl2) | 150mM | 250mM | 12 |
|   | NaCl (NaCl) | 350mM | 625mM | 12 |
|   | NaCl\_H (NaCl\_H) | 450mM | 625mM | 14.5 |
|   | SDS (SDS) | 0.0025% | 0.125% | 12.5 |
|   | SDS\_H (SDS\_H) | 0.0030% | 0.125% | 14.8 |
| aSamples 1g\_A, B, and C correspond to those sequenced to analyze the transposon insertion profile in the original library following one generation of growth. |
| bSamples 11g\_A and 11g\_B correspond to samples grown for 11 generations without treatment. |
| cMIC defined as the minimum concentration of drug in a two-fold dilution series required to prevent growth of WT MB001 in a plate reader experiment where cells were grown at 30 degrees in BHI+drug from a starting OD600 of 2.5x10-6. |