

Table S1. Composition of modified artificial urine media (mAUM)

| Component | mAUM | mAUM-high Pi | mAUMg | mAUMg-high Pi |
|---|----------------|---------------------|----------------|----------------------|
| Citric acid | 2 mM | 2 mM | | |
| Glucose | | | 2 mM | 2 mM |
| Lactic acid | 1.1 mM | 1.1 mM | 1.1 mM | 1.1 mM |
| Sodium chloride | 90 mM | 90 mM | 90 mM | 90 mM |
| Ammonium chloride | 25 mM | 25 mM | 25 mM | 25 mM |
| RPMI 1640 amino acid solution (50x; Sigma, MO, cat #: R7131) | 20 ml/l | 20 ml/l | 20 ml/l | 20 ml/l |
| L-glutamine (200mM; Sigma, MO, cat #: G7513) | 2 mM | 2 mM | 2 mM | 2 mM |
| Urea | 170 mM | 170 mM | 170 mM | 170 mM |
| Uric acid | 0.4 mM | 0.4 mM | 0.4 mM | 0.4 mM |
| Creatinine | 7 mM | 7 mM | 7 mM | 7 mM |
| Calcium chloride.2H₂O | 0.25 mM | 0.25 mM | 0.25 mM | 0.25 mM |
| Magnesium sulphate.7H ₂ O | 2 mM | 2 mM | 2 mM | 2 mM |
| Sodium sulphate.10H ₂ O | 10 mM | 10 mM | 10 mM | 10 mM |
| Sodium bicarbonate | 25 mM | 25 mM | 25 mM | 25 mM |
| Sodium nitrate | 6 mM | 6 mM | 6 mM | 6 mM |
| Iron II sulphate solution | 0.005 mM | 0.005 mM | 0.005 mM | 0.005 mM |
| Potassium dihydrogen phosphate | 1.8 mM | 28.8 mM | 1.8 mM | 28.8 mM |
| Di-potassium hydrogen phosphate | 1.8 mM | 28.8 mM | 1.8 mM | 28.8 mM |

An artificial urine medium described by Brooks *et al.* [1] was adapted for these experiments (changes are highlighted in bold). The final concentration of phosphate in mAUM, mAUMg and mAUM-high Pi, mAUMg-high Pi was 5 mM and 50 mM, respectively when combined with the PBS-containing inocula. pH adjusted to 7.

1. Brooks T, Keevil CW (1997) A simple artificial urine for the growth of urinary pathogens. Lett Appl Microbiol 24: 203-206.