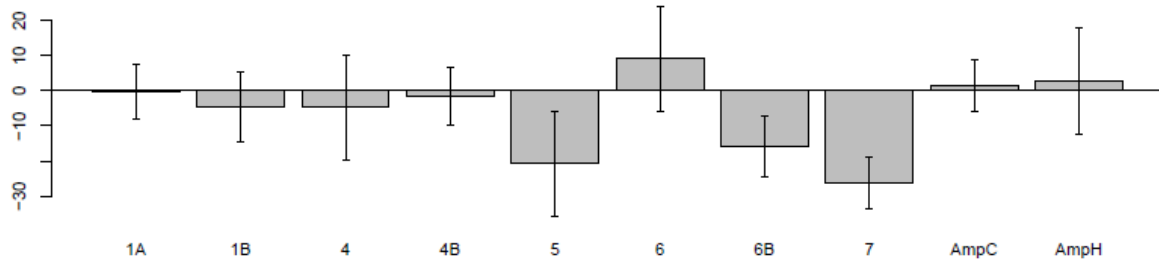
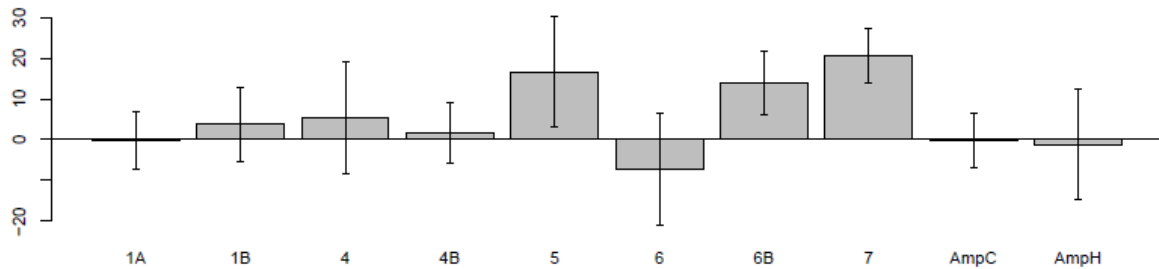


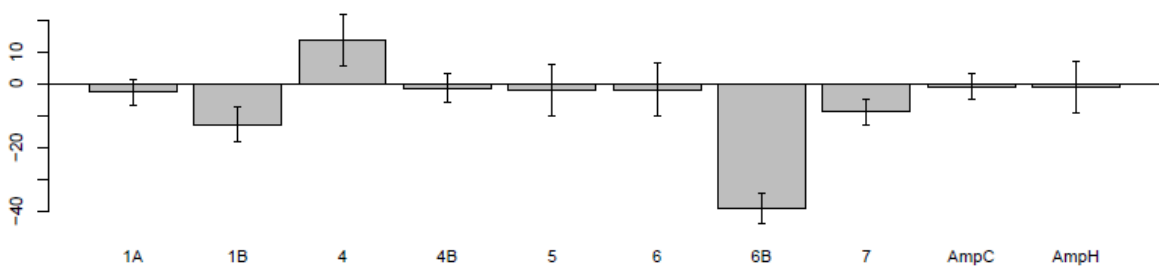
(A) pH 7.5 ... All strains / Pentapeptides



(B) pH 7.5 ... All strains / Tetrapeptides



(C) pH 5.0 ... All strains / Pentapeptides



(D) pH 5.0 ... All strains / Tetrapeptides

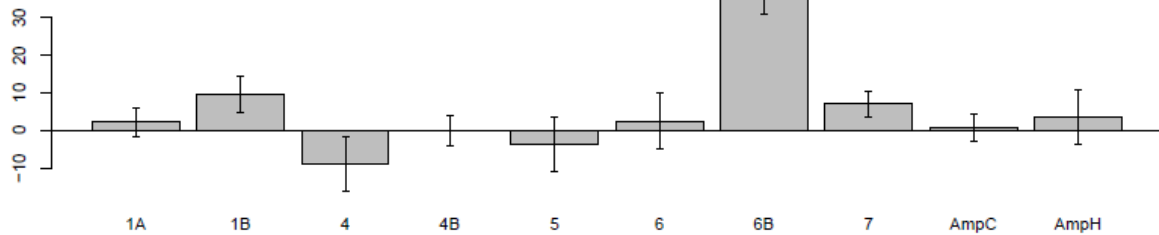


Figure S1. PBP-associated changes (\pm 95% confidence intervals) in penta- and tetrapeptide-containing mucopeptides in all *E. coli* strains tested ($n = 28$), including those with and without PBP5. Bacteria were grown in media buffered to pH 7.5 (A and B) or pH 5.0 (C and D), and mucopeptide compositions were determined by HPLC. The plotted values are the changes in mucopeptide levels associated with the presence of each PBP compared to absence of that PBP, and were computed using multivariable linear regression as described in Materials and Methods. DD-CPase activity decreases pentapeptides and increases tetrapeptides.