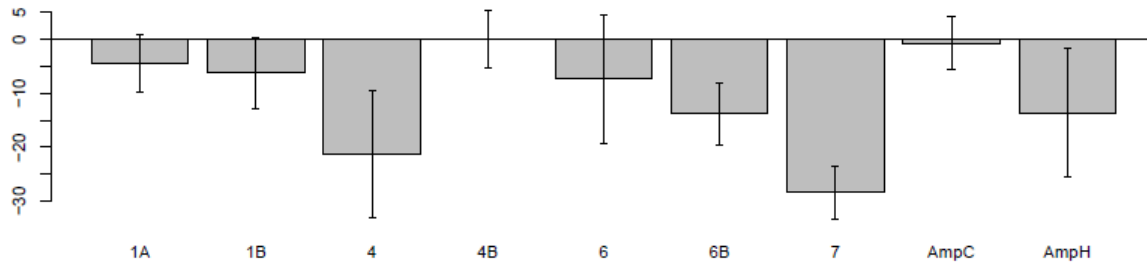
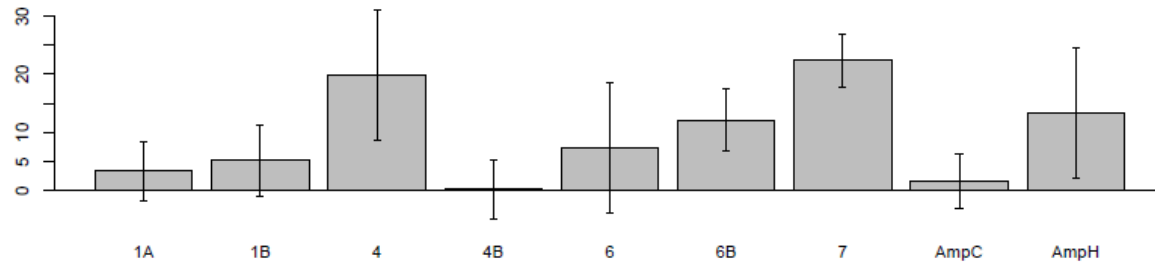


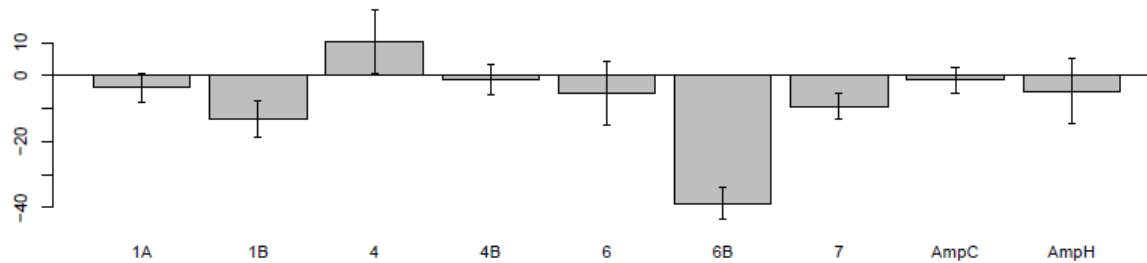
(A) pH 7.5 ... Δ PBP5 / Pentapeptides



(B) pH 7.5 ... Δ PBP5 / Tetrapeptides



(C) pH 5.0 ... Δ PBP5 / Pentapeptides



(D) pH 5.0 ... Δ PBP5 / Tetrapeptides

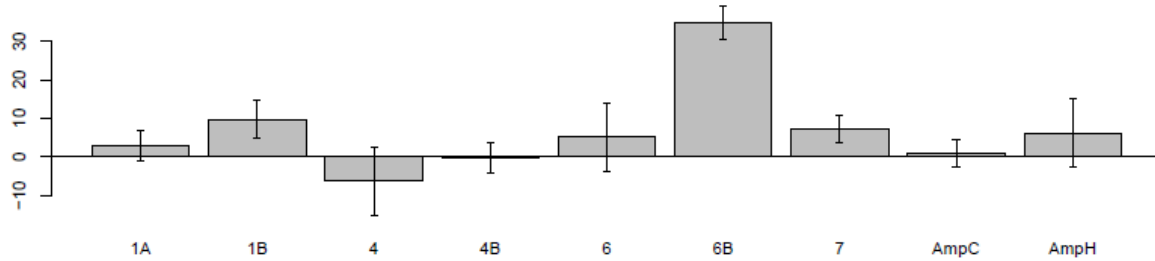


Figure S2. PBP-associated changes (\pm 95% confidence intervals) in penta- and tetrapeptide-containing mucopeptides in *E. coli* strains lacking PBP5 ($n = 26$). Bacteria were grown in media buffered to pH 7.5 (A and B) or pH 5.0 (C and D), and mucopeptide compositions were determined by HPLC. The plotted 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.