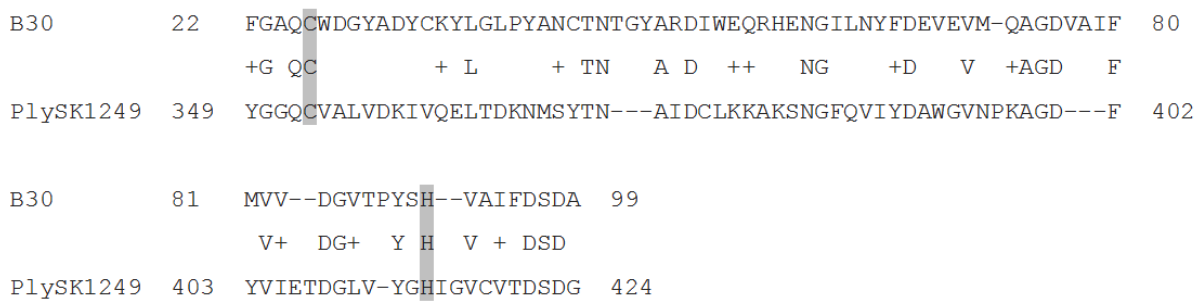

Figure S1. BlastP alignment of the B30 and PlySK1249 CHAP domains. Conserved catalytic cysteine and histidine residues are highlighted in grey.

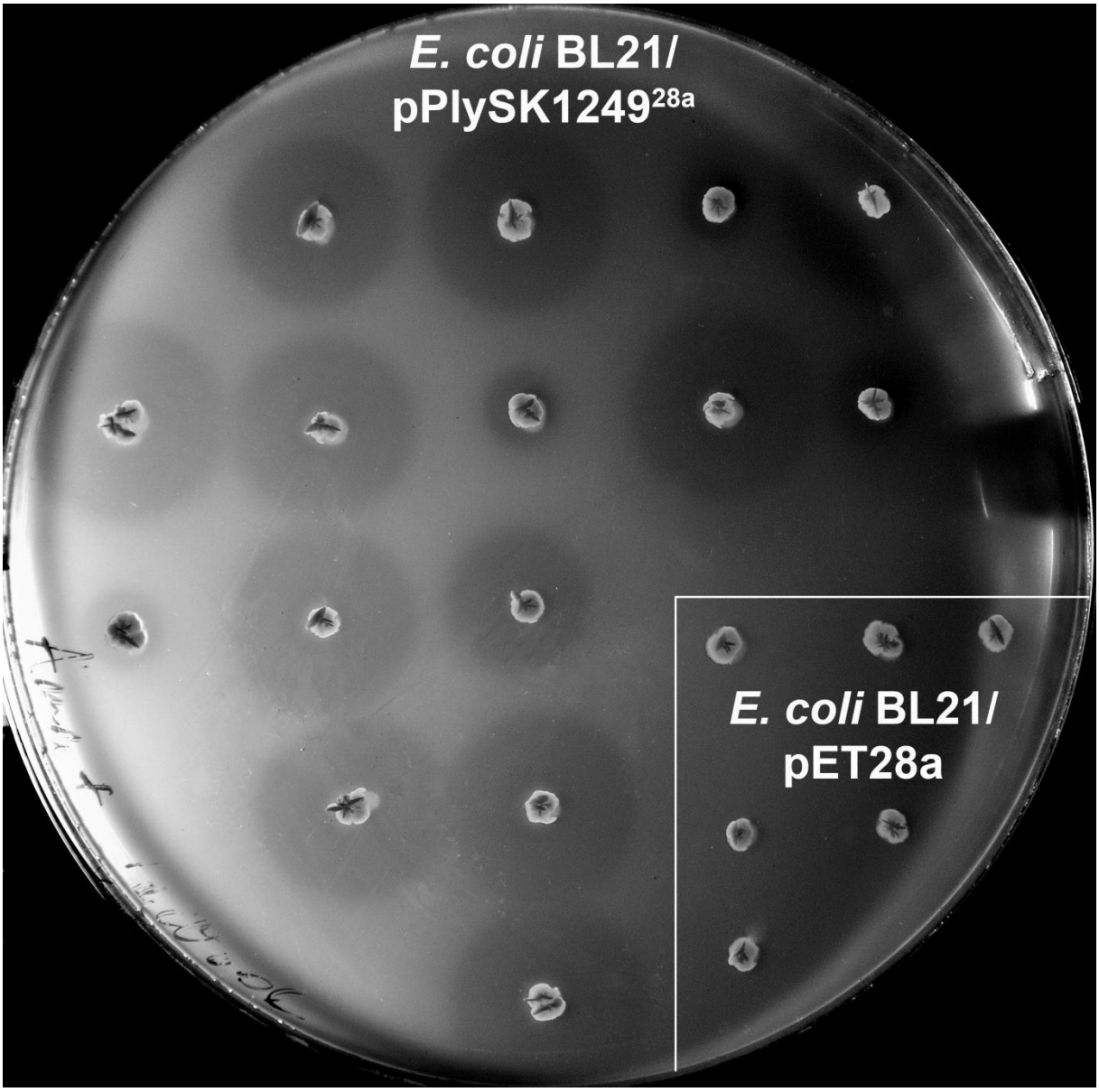

Figure S2. Various *E. coli* BL21/pPlySK1249[28a] colonies overlaid with soft agar containing autoclaved *S. dysgalactiae* cells. Colonies were grown on LA plates containing 0.4 mM IPTG as inducing agent and permeabilized with chloroform before being overlaid with *S. dysgalactiae* autoclaved cells. After O/N incubation, lysis zones appeared around colonies that released PlySK1249 (*E. coli* BL21/pPlySK1249[28a]). As control, no lysis zones were observed around colonies containing only empty pET-28a vectors (*E. coli* BL21/pET28a).

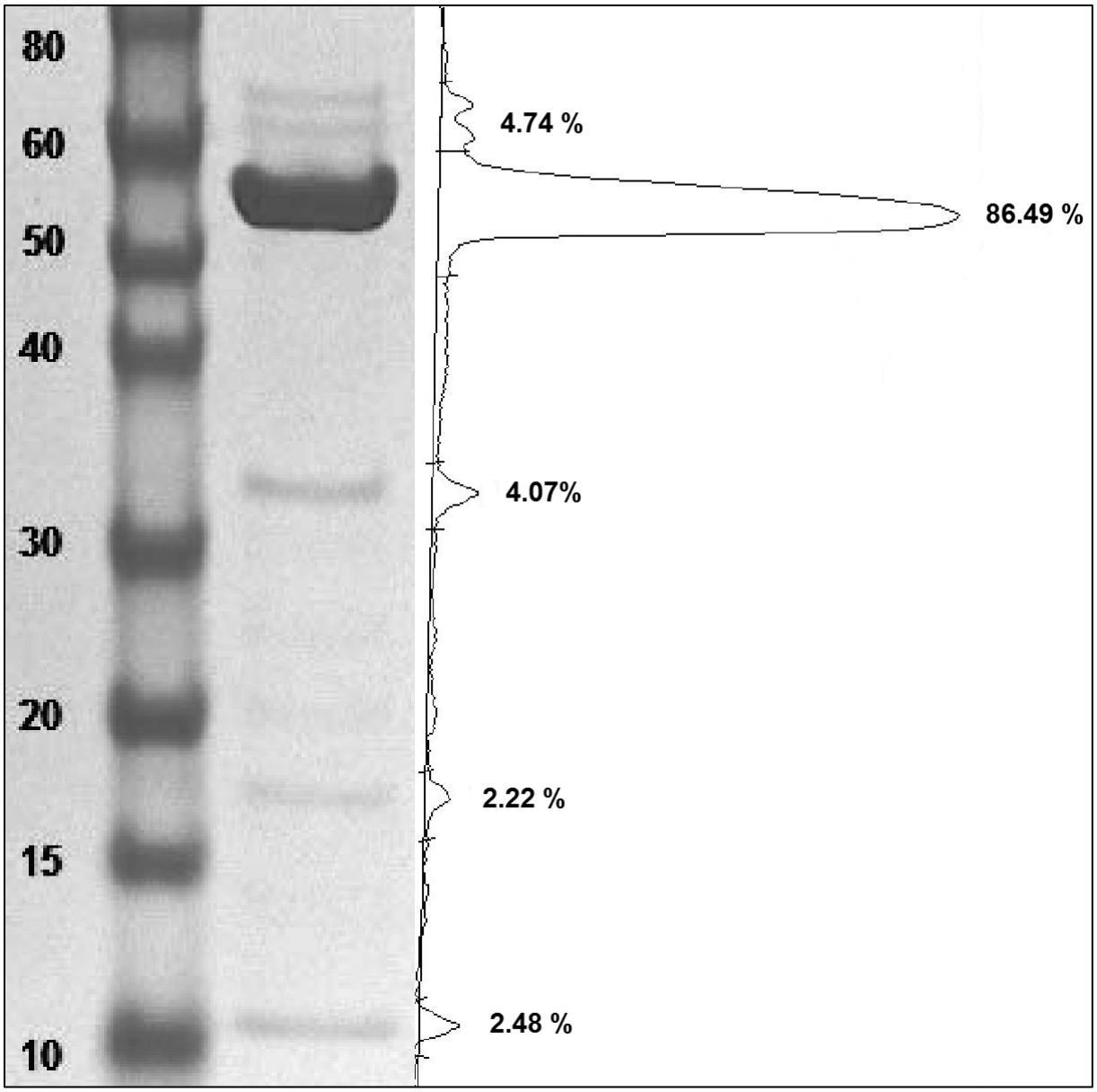

Figure S3. Scanner densitometry of a solution of purified PlySK1249. Percent of surface area of each peak are indicated. PlySK1249 was estimated to be ca. 90% pure.