



Fig. S2. Quantitative Western blot. To determine the lipoprotein content, whole cell lysates of *S. pneumoniae* $D39\Delta cps$, $D39\Delta cps\Delta tacL$, and the complemented strain $D39\Delta cps\Delta tacL\nabla tacL$ were cultivated in THY up to the mid-exponential phase. Whole cell lysate was denatured and separated using 12 % polyacrylamide gel in an SDS-PAGE. Protein bands were incubated with lipoprotein-specific mouse polyclonal IgG generated against non-lipidated pneumococcal lipoproteins PsaA (a), SlrA (b), and DacB (c), respectively [29, 31]. For the detection of lipoproteins by the LI-COR system an infrared fluorescent secondary goat-anti-mouse IgG antibody (IRDye® 800CW; LI-COR, USA; green) was used. Enolase was used as a reference protein, which was labelled with a specific rabbit polyclonal IgG and infrared fluorescent secondary goat-anti-rabbit IgG antibody (IRDye® 680RD; LI-COR, USA; red) as described above. Detection was carried out using LI-COR Odyssey CLx.