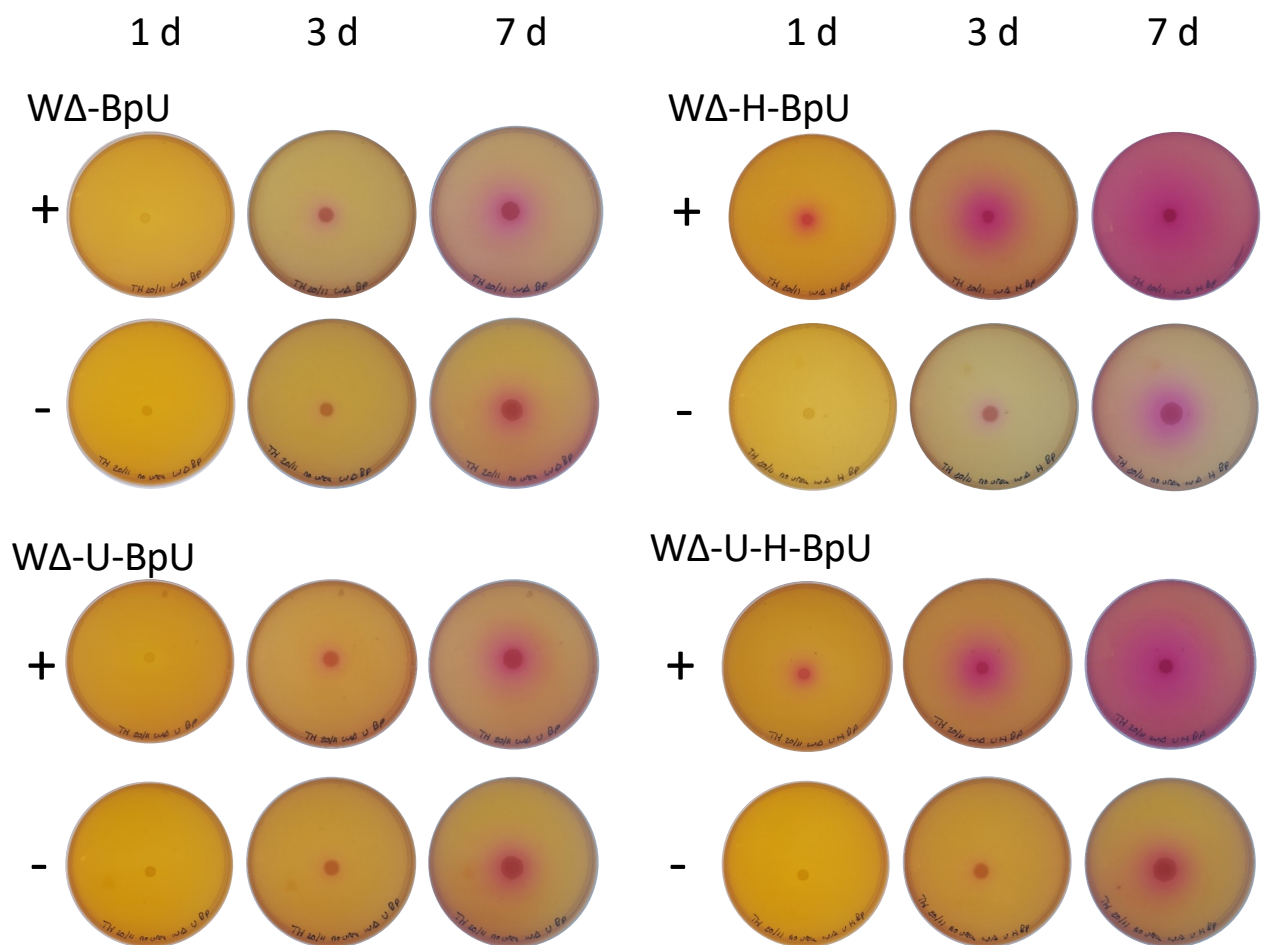




Additional file 2. Urease activity on solid media and precipitation assay following heterologous expression of *Bacillus paralicheniformis* urease genes in *B. subtilis*. Cells of a *ureABC* deletion strain of *B. subtilis* W168 (WΔ) containing expression constructs for *B. paralicheniformis* *ureABCEFGD* (BpU), *ureH* (H), UT (U) or combinations thereof were spotted onto LBC agar plates with (+) or without (-) urea. The plates contained phenol red and had been adjusted to an initial pH of 7.2. Plates were incubated at 30°C and photographed after 1, 3 and 7 days as indicated. Urease activity is visible as a stronger development of pink colouration as compared to the urea-free control; the slight pink colouration immediately surrounding the bacterial growth is due to general metabolic activity. Results shown are representative of three independent experiments.