



Figure S1. Detection of *A. apis* in the gut sample from *A. apis*-infected larvae and controls by PCR test at 3 days post-infection. The gut samples (lanes 1-3) from the *A. apis*-infected larvae were positive for *A. apis* infection (550 bp), and the gut samples (lanes 5-7) from the control larvae were negative for *A. apis* infection. M indicates DNA markers; lanes 4 and 8: negative controls (no template) for guts samples of *A. apis*-infected larvae and controls respectively.