



Supplemental Figure S7. Virus Testing of Samples from Lake Sinai virus 2 Purification

Honey bee associated viruses were isolated from a honey bee colony that was primarily infected with LSV2.

The virus purification protocol results in several samples, including the initial honey bee lysate (L),

virus-pellet after ultracentrifugation (U), and several fractions from a CsCl gradient (Fraction 2 unconcentrated (F2*),

concentrated fraction 2 (F2), concentrated fraction 3 (F3), concentrated fraction 4 (F4), and concentrated fraction 5 (F5).

Virus specific PCR was utilized to screen these samples for the presence of common honey bee viruses including:

LSV2, BQCV, SBV, ABPV, CBPV, IAPV, KBV, LSV1, LSV3, and LSV4.

LSV2 and BQCV abundance was assessed by qPCR (see Figure 4), the products were analyzed by agarose gel electrophoresis

(A) LSV2, (B) BQCV, and (C) LSV2 and BQCV qPCR standards $10^9 - 10^5$.

(E) Fraction 4 was not positive for SBV, ABPV, CBPV, IAPV, KBV, LSV1, LSV3, or LSV4, agarose gel electrophoresis of PCR products. Positive and negative control reactions are noted with (+) and (-), respectively.