

Figure S1. Does HLVD sequence secondary structure cause self-priming in RT-PCR analysis? RT-PCR analysis was performed with either RT or PCR reaction mixtures missing the primers. The upper panel shows the amplification within a reaction where primers were taken out from the RT step, while the lower panel shows the reaction amplicons where primers were missing from the PCR step.

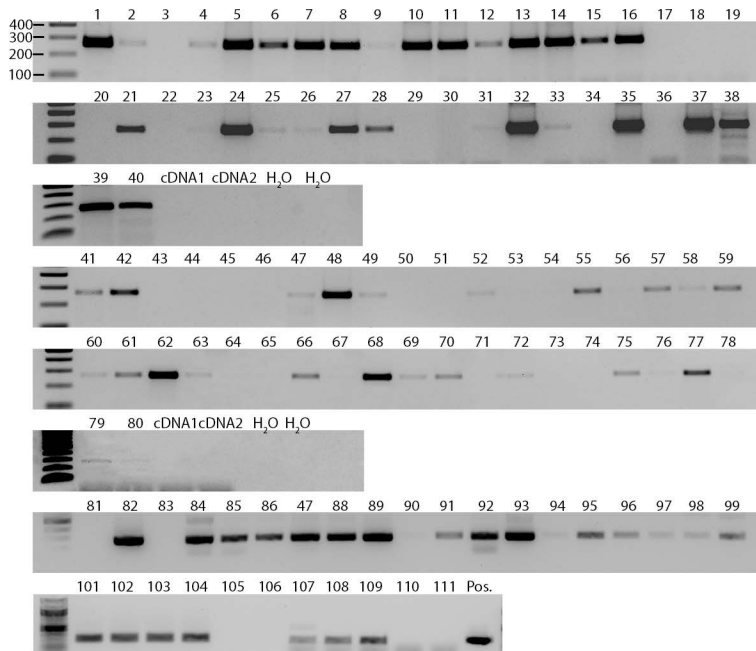


Figure S2: RT-PCR analysis of 111 hemp samples to detect HLvD. The sizes of the DNA ladder bands are shown on the left of the top panel. No RNA controls are identified as cDNA controls 1 & 2. No cDNA controls are identified as H₂O. The cDNA clone of HLvD in pGEM-T Easy vector was the positive control (Pos.)

[illegible]

Genomic track visualization showing sequence conservation, quality, and consensus across a genomic region (positions 10 to 250).

Sequence:

1 ATGGTGGCAAGGGCTCGAAGAGGGATCCCCGGGGAAACCTACTCGAGCGAGGCGGAGATCGAGCGCCAGTTCTGTCGCGCGCGACCTGAAAGTTGCTTCGGCTTCTTCTTGTTTCGCGTCTCTGCTGGAACGGCTCCTTCTTACACACGCGCGAGTTGGAAACTACCCGGTGGATACAACCTCTTGAGCGCCGAGCTTAACCTGCAGAAGTTCACATAAAAAAGTGGCCCTCTGGGGAAATACACTACGTGACTTACCTGT

Conservation:

Conservation scores are displayed as a bar chart, ranging from 0 to 1.0. The chart shows high conservation across the entire region, with a peak of 1.0 at position 10.

Quality:

Quality scores are displayed as a bar chart, ranging from 0 to 10. The chart shows high quality across the entire region, with a peak of 10 at position 10.

Consensus:

Consensus sequence: ATGGTGGCAAGGGCTCGAAGAGGGATCCCCGGGGAAACCTACTCGAGCGAGGCGGAGATCGAGCGCCAGTTCTGTCGCGCGCGACCTGAAAGTTGCTTCGGCTTCTTCTTGTTTCGCGTCTCTGCTGGAACGGCTCCTTCTTACACACGCGCGAGTTGGAAACTACCCGGTGGATACAACCTCTTGAGCGCCGAGCTTAACCTGCAGAAGTTCACATAAAAAAGTGGCCCTCTGGGGAAATACACTACGTGACTTACCTGT

Occupancy:

Occupancy scores are displayed as a bar chart, ranging from 0 to 1.0. The chart shows high occupancy across the entire region, with a peak of 1.0 at position 10.



Figure S4: Side and slant view of HLVD-infected hemp. Table S1: Accession numbers of Hop latent viroid isolates recovered in this study.

Table S1. Accession numbers of *Hop latent viroid* isolates recovered in this study.

Isolate number	accession number
01	OR338705
05	OR338706
06	OR338707
07	OR338708
08	OR338709
10	OR338710
11	OR338711
12	OR338712
13	OR338713
14	OR338714
21	OR338715
24	OR338716
25	OR338717
26	OR338718
27	OR338719
28	OR338720
32	OR338721
33	OR338722
35	OR338723
37	OR338724
38	OR338725
39	OR338726
40	OR338727
42	OR338728
47	OR338729
48	OR338730
55	OR338731
58	OR338732
59	OR338733
61	OR338734
62	OR338735
66	OR338736
68	OR338737
69	OR338738
70	OR338739
72	OR338740
75	OR338741
77	OR338742
79	OR338743
80	OR338744
81	OR338745