

YOUR HOP LATENT VIROID CHECKLIST

Hop Latent Viroid (HLVd) is a single-stranded, circular infectious RNA that causes stunted growth in cannabis and hemp plants that can decrease yield as much as 50%. Use these checklists to help you identify, eliminate, and prevent an HLVd infection in your grow

Identification

If you observe any of the following symptoms, you may have a hop latent viroid (HLVd) infection.

Propagation

- High percentage of clones dampening off
- Clones unable to take root

Vegetative Stage

- Lateral branching
- Brittle stems
- Smaller, narrower leaves
- Discolored, malformed leaves
- Shorter internodal spacing
- Odor similar to composting leaves

Flowering

- Decreased flower size and/or density
- Decreased trichome production
- Decreased oil production
- Increased hermaphroditism
- Increased susceptibility to pathogens (powdery mildew, botrytis, etc.)

Elimination

If you suspect a HLVd infection, use the following steps to eliminate it.

- Test any plants showing signs of HLVd infection with PathoSEEK Hop Latent Viroid Detection Assay and remove any plants that test positive
- Expand testing to include all mother plants and remove any plants that test positive
- Replace mothers with new plants grown from seed
- Perform a deep clean of all equipment and surfaces using a 10-20% bleach solution

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Prevention

Use the checklist below to make sure you are taking proper steps to prevent HLVd infection.

Propogation

- Screen mother plants for HLVd prior to taking any cuttings
- Space out mother plants to prevent contact
- Sterilize sheers and equipment with 10-20% bleach solution before and after contact with plants
- Sterilize trays and humidity domes with 10-20% bleach solution
- Use fresh cloning gel for cuttings from different mother plants
- Quarantine and test outside clones before introducing them to clean plants

Vegetative Stage and Flowering

- Space out plants to prevent contact
- Sterilize pots with 10-20% bleach solution prior to transplanting
- Sterilize sheers and equipment with 10-20% bleach solution before and after contact with plants
- Sterilize irrigation lines with 10-20% bleach solution
- Require visitors and staff wear hairnets, beard nets, gloves, and Tyvek coveralls

Test Plants In-House with Medicinal Genomics

Medicinal Genomics uses its unmatched expertise in cannabis genomics to create qPCR assays that identify microbial contamination, plant pathogens, and genetic traits.

Contact Medicinal Genomics (info@medicinalgenomics.com or 866-574-3582) to get the equipment and reagents you need to start testing plants in-house!

Test Plants with PhenoXpress

PhenoXpress offers low-cost genetic testing services to help cultivation facilities identify prevent and eliminate major crop problems.

Contact PheoXpress (info@phenoxpress.com or 617-270-2061) to get started!