

Cannabis Virus Screen (ELISA)

Cannabis Virus Screen by ELISA	<ul style="list-style-type: none"> Alfalfa Mosaic Virus (AMV) Arabis Mosaic virus (ArMV) Cucumber Mosaic Virus (CMV) Tobacco Ringspot Virus (TRSV) 	<ul style="list-style-type: none"> Tobacco Streak Virus (TSV) Tomato Mosaic Virus (ToMV) Tomato Ringspot Virus (ToRSV) 	Volume Based
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Plant Disease Diagnosis

Diagnosis	<ul style="list-style-type: none"> Various (see below) Diseases of Hemp (Source: APS) (https://www.apsnet.org) 	TBD: Differential diagnosis may require multiple tests
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FUNGAL DISEASES
Anthracnose (<i>Colletotrichum coccodes</i>)
Black dot disease (<i>Epicoccum nigrum</i>)
Brown blight (<i>Alternaria alternata</i>)
Brown leaf spot and stem canker (<i>Ascochyta</i> and <i>Phoma</i> spp.)
Charcoal rot (<i>Macrophomina phaseolina</i>)
Cladosporium stem canker (<i>Cladosporium</i> spp.)
Curvularia leaf spot (<i>Curvularia</i> spp.)
Cylindrosporium blight (<i>Cylindrosporium</i> sp.)
Damping-off (<i>Botrytis cinerea</i> , <i>Fusarium oxysporum</i> , <i>Fusarium solani</i> , <i>Macrophomina phaseolina</i> , <i>Pythium</i> spp., <i>Rhizoctonia solani</i>)
Fusarium foot rot and root rot (<i>Fusarium solani</i>)
Fusarium stem canker (<i>Fusarium sulphureum</i>)
Fusarium wilt (<i>Fusarium oxysporum</i>)
Downy mildew (<i>Pseudoperonospora</i> spp.)
Gray mold (<i>Botrytis cinerea</i>)
Hemp canker (<i>Sclerotinia sclerotiorum</i>)
Leptosphaeria blight (<i>Leptosphaeria</i> spp.)
Olive leaf spot (<i>Cercospora cannabis</i> , <i>Pseudocercospora cannabina</i>)
Ophiobolus stem canker (<i>Ophiobolus</i> spp.)
Phoma stem canker (<i>Phoma</i> spp.)
Phomopsis stem canker (<i>Phomopsis</i> spp.)
Pink Rot (<i>Trichothecium roseum</i>)
Powdery mildew (<i>Oidium</i> and <i>Oidiopsis</i> sp.)
Rust (<i>Aecidium cannabis</i> , <i>Uredo kriegeriana</i> , <i>Uromyces insonspicuus</i>)

FUNGAL DISEASES (continued)
Tar spot (<i>Phyllachora cannabisidis</i>)
Tropical rot (<i>Botryodiplodia theobromae</i>)
Twig blight (<i>Botryosphaeria marconii</i>)
Verticillium wilt (<i>Verticillium</i> spp.)
White leaf spot (<i>Phomopsis ganjae</i>)
Yellow leaf spot (<i>Septoria</i> spp.)

VIRAL AND VIROID DISEASES
[See virus screening (ELISA) list and viroid test above]

PHYTOPLASMAL DISEASES
Witches' broom

BACTERIAL DISEASES
Bacterial blight (<i>Pseudomonas syringae</i> pv. <i>cannabina</i>)
Crown gall (<i>Agrobacterium tumefaciens</i>)
Striatura ulcerosa (<i>Pseudomonas syringae</i> pv. <i>mori</i>)
Xanthomonas leaf spot (<i>Xanthomonas campestris</i> pv. <i>cannabis</i>)

NEMATODE DISEASES
Cyst (Heteroderidae)
Root-knot (<i>Meloidogyne</i> sp.)
Stem (<i>Ditylenchus</i> sp.)