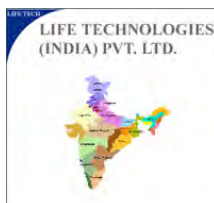




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Accelerate your results. Amplify your expectations.

(Huanglongbing) HLB / Citrus Greening Disease

Candidatus Liberibacter asiaticus



(Huanglongbing) HLB / Citrus Greening Disease

Huanglongbing (HLB), also known as Citrus Greening, is a serious and potentially lethal disease of citrus trees. Greening is characterized by blotchy mottle on leaves, yellow veins, twig dieback, and small, misshapen fruit. Some of these symptoms are indicative of tree health unrelated to HLB disease, such as nutritional deficiency, which makes it challenging to accurately identify the disease without diagnostic tools. Of the three bacteria that cause Citrus Greening, *Candidatus Liberibacter asiaticus* (Las) is the most widespread and it is vectored by the Asian citrus psyllid (ACP), *Diaphorina citri*.

How does Acceler8 work?

Collect your sample. Agdia recommends testing the mid-rib section of the infected leaf.



Sample extraction is completed in minutes using a pre-filled buffer bag with mesh lining.



Amplification is completed in 10 to 15 minutes using only a portable heat block. The heat block is lightweight and can easily be transported to the field if necessary.



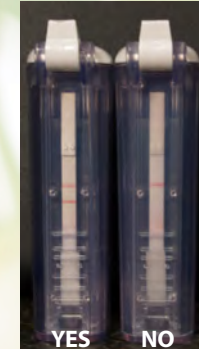
Add the unopened reaction tube to the reaction apparatus provided in the kit.



Insert the reaction apparatus into the detection chamber. Push down on the handle of the detection chamber until it snaps shut. Wait 20 minutes before interpreting results.



Yes or No results are reported on a lateral flow strip housed within an amplicon containment device.



AmplifyRP Acceler8 for Las was validated for accuracy by testing a panel of known positive samples that had previously been confirmed using qPCR, with a Cq range of 21.5 to 30.1. Crude extracts, as well as the original DNA purifications, were tested using Agdia's AmplifyRP Acceler8 assay which resulted in a 100% correlation between AmplifyRP Acceler8 for Las and qPCR. The assay's limit of detection (LOD) is estimated to be approximately 46 copies, based on performance testing using purified PCR fragments.

How is AmplifyRP Different than PCR?

- Requires no DNA / RNA purification
- Isothermal amplification – no thermocycling
- Results are read visually using a lateral flow strip
- Results are available in 30 minutes, including extraction, versus several hours with PCR methods

Testing Services for HLB

Agdia Testing Services uses our newest DNA testing platform, AmplifyRP, to test for HLB at the species level. Agdia will test your samples to determine if they are positive for the *asiaticus* strain of HLB. This strain is the most predominant in the United States. We can also test for the *africanus* and *americanus* strains upon request.

Agdia has developed or is currently developing Acceler8 tests for several plant pathogens. For the most current list of available pathogens, please visit Agdia's website: www.agdia.com/amplifyrp

If you are interested in collaborating with Agdia to develop a specific assay, please contact us at 800-622-4342.

Acceler8TM
HLB/Citrus Greening