



Citrus Black Spot: Rapid Detection System

ICGene

Phyllosticta Citricarpa (Guignardia citricarpa)

Guignardia citricarpa is a fungus causal agent of the "black spot" of citrus fruits, a devastating disease that considerably reduces citrus production favoring the premature fall of the fruit. Furthermore, the unsightly injuries make them unmarketable.

Symptoms on the fruit are lesions of varying sizes, from small black spots to large lesions that reach the pulp. *G.citricarpa* is able to attack all species of the genus Citrus, some species are more susceptible to the fungus than others (lemon, orange) but to date, resistant plants have not yet been identified. The disease is present in Asia, Africa, America and Oceania, while it has never been observed in Europe.

However, it is the subject of particular attention as numerous interceptions of infected plant material have been reported at the borders and for this reason **Guignardia Citricarpa** is included in the A1: 194 list of the EPPO (European and Mediterranean Plant Protection organization).



Specific kit for qualitative, rapid and specific detection of **Guignardia Citricarpa** on citrus fruits.

The Kit consists of:



REAGENTS

To perform rapid DNA extraction and specific gene amplification with LAMP technology



BADGE (RFID)

Containing all kit information, including lot number and expiration date



TABLET WITH ICGENE APP

With real-time result of the detection of *Guignardia citricarpa* in the analyzed samples.

FEATURES

- Reagents are included and ready to use
- Rapid DNA extraction in minutes at controlled temperatures
- LAMP Technology
- Tablet with App included to allow results to be read directly
- Customized solutions for laboratories

BENEFITS

- Portable system design for testing in the field
- Portable at room temperature
- Conservation of reagents at between +2° e +8° C
- Results in maximum 60'
- Reduction of cross-contamination

Contact **Sep Sci** for more information.

Separation Scientific

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