

CropHealthMonitor PlantDoctor Camelia Japonica

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Example

 Sample
 Research-/ordernumber: Date sampling:
 Date report:

 727974/004429360
 26-07-2018
 20-08-2018

Test code: Receiving date: Sample was taken by: Contactperson sampling:

780 31-07-2018 Third party

Results

The roots of the Camelia japonica are brown-black. Some roots are still white. The leaves are green, with some brown spots. The feet of the plants show brown vascular bundles. One plant also has a distinctive brown spot in the centre of the foot.

The plants have been tested for the presence of pathogenic fungi, using DNA-methods.

The analyses showed that the plants are heavily infected with the fungi Fusarium spp., Fusarium oxysporum, Fusarium solani, Pythium spp. and Colletotrichum spp.

Also Pythium irregulare, Alternaria spp., Trichoderma spp., Trichoderma asperellum and Trichoderma hamatum are present.

Fusarium solani can cause foot and stem rot.

Fusarium oxysporum is a vein pathogen which blocks the vascular bundles of the plant. The water and nutrient transport will stagnate and plants may wilt and turn yellow.

Pythium species are (mostly) secondary pathogens, which can infect weakened plants, and cause severe root rot. Colletotrichum spp. can cause root rot, but is often a secondary pathogen.

Trichoderma spp. is an antagonistic fungus. Some subspecies can protect the roots of the plants from other, harmful fungi.

Based on the results we conclude that a combination of the Fusarium species is the primary cause of the rot of the Camelia japonica.

Remove infected plants and clean up plant remains. Ensure good drainage of the soil.

It is important to stimulate the growth of the plants, and to optimize environmental conditions.

Pythium spp. and Fusarium spp. can remain in infested plant material and soil for a long time. Therefore it is important to start with clean soil and healthy plants.

If possible, use disinfected water and give water from below in order to prevent the spread of spores. Spores of Colletotrichum spp., Pythium spp. and Fusarium spp. can easily be spread by (splash)water and irrigation.

Material upon arrival



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Camelia Japonica

Method

The reported results only refer to the material supplied to Eurofins Agro.

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