

CropHealthMonitor PlantDoctor lettuce plugs

Eurofins Agro PO Box 170 NL - 6700 AD Wageningen The Netherlands T +31 (0)88 876 1014 F +31 (0)88 876 1011 E horti@eurofins.com I www.eurofins-agro.com

Example report

Copy

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

11-04-2023 31-05-2023

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

780 14-04-2023 Third party

Results The young lettuce plants in plugs are analyzed for the presence of living fungi and oomycetes.

Some of the roots are brown. The plant base of a few plants has a brown lesion.

One of the main questions is whether Pythium spp. is present in the sample.

First, the sample was microscopically assessed.

A potential oospore and a possible piece of Rhizoctonia mycelium were observed.

The plant material was analyzed for the presence of plant pathogenic fungi and oomycetes using a DNA Multiscan.

Fusarium oxysporum and Pythium spp. (Pythium dissotocum) were detected.

The sample was plated on different culture media for fungi and oomycetes as well. A few colonies Alternaria spp. and Stemphyllium spp. were isolated.

After incubation the sample was re-evaluated microscopically.

A lot of mycelium of Pythium spp. was observed.

Fusarium spp., Alternaria spp. and Stemphyllium spp. were not observed.

Based on the results we conclude that Pythium spp. is present in the young lettuce plants. The detected Fusarium oxysporum was not isolated nor observed. Therefor Fusarium oxysporum is likely not present in the vascular tissues of the plant, making it a potential non-pathogenic species of Fusarium oxysporum. Alternaria spp., Stemphyllium spp. and Rhizoctonia spp. are secondary present in this case.

Material upon arrival



Method

The results relate exclusively to the material supplied, which Eurofins Agro received and was processed on 14-04-2023, and therefore to the sample analysed. For a detailed description of the sampling and analysis methods used, visit www.eurofins-agro.com All analyses were (partial) conducted at the laboratory in Eurofins Agro, Wageningen.

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