

CropHealthMonitor  
PlantDoctor  
lettuce plugs

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## Example report

### Copy

<b>Sample</b>	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. Therefore *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](http://www.eurofins-agro.com)  
All analyses were (partial) conducted at the laboratory in Eurofins Agro, Wageningen.