

## **ANALYSIS-PACKAGE Blgg laboratories**

### **RISCover<sup>®</sup> Vegetables**

Monitor plant diseases in your substrate

Blgg introduces RISCover<sup>®</sup>. By means of regular check-ups of pathogenic fungi in a substrate, it is possible to trace their presence in an early stage. So the risk of fungi actually infecting the crop and resulting production losses is limited significantly.

Insects can easily be monitored in the crop, but how to deal with fungal diseases occurring in the root environment? Mostly they can not be seen by the naked eye. Often they are only discovered when the plants already show symptoms of the infection, which is actually too late.

RISCover<sup>®</sup> visualizes the invisible. Regular, preferably monthly analysis, create opportunities to act upon the presence and development of the fungal population. Measures can be taken before the infection leads to quality and/or production problems.

#### **How does RISCover<sup>®</sup> work?**

RISCover<sup>®</sup> is using techniques by which DNA of fungi is analysed. Every organism contains an unique DNA pattern, a kind of BAR-code. These codes are crucial to distinguish different types of fungi.

In the re-circulation water, RISCover<sup>®</sup> can detect plant pathogenic fungi. The Blgg RISCover<sup>®</sup> test can analyse several fungi in one sample, this is the so called 'multiplex' technique. Also quantities of fungal population presence can be measured with this technique.

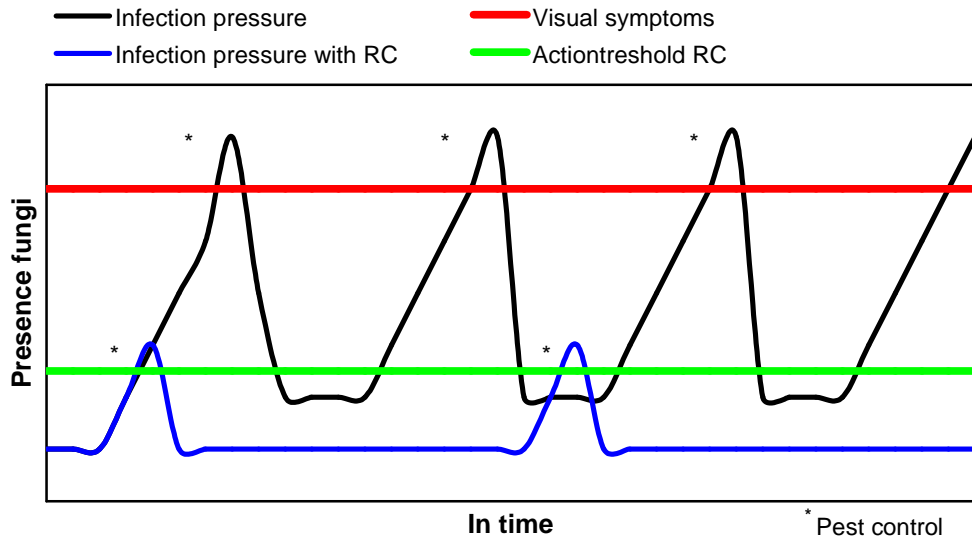


Not every crop is sensitive to the same fungi. Therefore, Blgg offers specific tests for different crops, starting with tomato, cucumber, (sweet) pepper and rose. This has resulted in a product, which is both plant specific and cost effective.

#### **Your Riscover<sup>®</sup> benefits**

Early monitoring creates an opportunity to limit or avoid any damage to the crop. It reduces the pesticide applications. Less second grade fruits, so increased yield of a better quality.

## RISCover monitoring versus conventional pest control



Graphic presentation of the effect of RISCover®

Visual presence of disease symptoms are mostly controlled by fungicide applications. Blgg is developing new crop protection strategies to reduce the use of environmental harmful fungicides. This is done by e.g. developing different irrigation strategies. The results of these control measures can be measured immediately by monitoring the reduction of the presence of fungal pathogen populations.

Regular drain water analysis on the presence of nutrients can ideally be combined with the monitoring tool of RISCover®. In addition, RISCover® is the perfect tool for a hygiene check-up when a new cropping season starts. This is what we check:

TOMATO	CUCUMBER	SWEET PEPPER
<i>Colletotrichum coccodes</i> <i>Fusarium</i> spp., <i>Fusarium oxysporum</i> , <i>F. oxysporum</i> f sp <i>lycopersici</i> (NEW) <i>Fusarium solani</i> , <i>Phytophthora</i> spp., <i>Phytophthora cryptogea</i> , <i>Phytophthora nicotianae</i> , <i>Pyrenochaeta lycopersici</i> <i>Pythium</i> spp. <i>Pythium aphanidermatum</i> , <i>Pythium dissotocum</i> , <i>Pythium irregulare</i> <i>Pythium ultimum</i> , <i>Rhizoctonia solani</i> <i>Verticillium albo atrum</i> <i>Verticillium dahliae</i>	<i>Colletotrichum coccodes</i> , <i>Fusarium</i> spp., <i>Fusarium oxysporum</i> , <i>F. oxysporum</i> f sp <i>radicis-cucumerinum</i> (NEW) <i>F. oxysporum cucumerinum</i> (NEW) <i>Phoma destructiva</i> , <i>Phomopsis sclerotioides</i> (NEW) <i>Phytophthora</i> spp., <i>Pythium</i> spp., <i>Pythium aphanidermatum</i> , <i>Pythium dissotocum</i> <i>Pythium irregulare</i> <i>Pythium ultimum</i> , <i>Verticillium albo atrum</i> <i>Verticillium dahliae</i>	<i>Colletotrichum coccodes</i> <i>Fusarium</i> spp., <i>Fusarium oxysporum</i> , <i>Fusarium solani</i> , <i>Phoma destructiva</i> , <i>Phytophthora</i> spp. <i>Phytophthora capsici</i> , <i>Phytophthora cryptogea</i> , <i>Phytophthora nicotianae</i> , <i>Pyrenochaeta lycopersici</i> <i>Pythium</i> spp. <i>Pythium aphanidermatum</i> , <i>Pythium dissotocum</i> , <i>Pythium irregulare</i> <i>Pythium ultimum</i> , <i>Verticillium albo atrum</i> <i>Verticillium dahliae</i>

Status range march 2007

By combining the test results with all relevant information on the growing conditions and cultural practices, RISCover® will become the *perfect* tool to limit plant infection. More information about sampling practices will be shown in a separate sheet. An intensive co-operation between you, as a grower and RISCover® will maximise the benefits from this revolutionary product.

### We welcome your cooled samples at:

Blgg laboratories  
 Zuidweg 42  
 2671 MN Naaldwijk  
 The Netherlands

T: +31 174626624  
 F: +31 174620065  
 E: [GJK@blgg.nl](mailto:GJK@blgg.nl)  
 I: [www.blgg.com](http://www.blgg.com)