DEG GREEN TEAM

Aqua-Perl
Engdalsvej 26
8220 Brabrand

Tilst 18.of April, 2005.
LP/lp

Concerning test of Aqua-Perl against Phytophthora ramorum, European Isolate:

From Biologische Bundesanstalt für Land-und Forstwirtschaft, Braunschweig, Germany we received an isolate of *Phytophthora ramorum*, European isolate from Rhododendron, which we did growth on carrot-oatmeal agar at 24°C for 10 days. After 10 days, the isolate produced zoospores.

From a nursery, we received 4 bottles of Aqua-Hort treated water in a nutrient solution with an EC- level of 2,0 , not more than 1 hours old. The bottles were marked 1-2-3 and 4.
As a control, we used demineralised water with an EC-level of 0,002.

A piece of 1x1 cm of agar with *Phytophthora ramorum* with zoosporangia's, we added 10 ml of treated water from bottle no.1. We did the same with the other bottles and with the control.
After 10 minutes, we looked carefully in the microscope for the activity of zoospores, released from the zoosporangia's.

The 10 ml water was then sieved through a microporefilter, 0.8 micromilimeters in diameters, which do not allowed the zoospores to pass through. The filter was then placed directly on carrot-oatmeal agar in a Petri dish and placed in dark for 4 days at 24°C to control, whether the zoospores were just inactive or dead=haven't loosed the ability to produced mycelium.
For each treatment we used 4 Petri dishes.

Results:		
	Inactivity	Dead
0,5 ppm copper	yes	yes
1,0 ppm copper	yes	yes
1,5 ppm copper	yes	yes
2,0 ppm copper	yes	yes
Control	no	no

Conclusion: The water treated with 0,5ppm, 1,0ppm, 1,5ppm and 2,0 ppm copper from Aqua-Hort controlled the zoospores of the tested European isolate of *Phytophthora ramorum.*

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