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Evaluation of comparative test: Molecular diagnostics of the dry rot fungus *Serpula lacrymans*

Three laboratories (table 1) took part in a comparative test for the molecular diagnostics of the dry rot fungus *Serpula lacrymans*. Test samples were provided by Mykolabor Dresden and the Laboratory Dynamic Code AB as specified in table 1. Analysis was done between September and November 2014. Summarized results are given in table 3.

Table 1: Participating laboratories

Laboratorium	Ansprechpartner	Anschrift
Dynamic Code	Malin Farnebäck Email: malin@dynamiccode.se	Dynamic Code AB Box 1189 SE-581 11 Linköping Sweden
Umweltmykologie Berlin	Dr. Karen Steeghs-Alcer Email: mail@umweltmykologie.de	Umweltmykologie GbR Dr. Dill und Dr. Trautmann Zossener Str. 56-58 Aufg. D 10961 Berlin
Mykolabor Dresden	Kordula Jacobs Email: kordula.jacobs@ihd-dresden.de	Mykolabor Dresden im Institut für Holztechnologie Dresden gemeinnützige GmbH Zellescher Weg 24 01217 Dresden

Table 2: Sample material

Sample No./ origin	Sample name	Material
1 /Mykolabor	1490010668	DNA extract
2/Mykolabor	1490010669	DNA extract
3/Mykolabor	1490010670	DNA extract
4/Mykolabor	1490010671	Mycelia
5/Mykolabor	1490010672	Mycelia
6/Mykolabor	1490010673	Milled wood
7/Dynamic Code	1490010674	DNA extract
8/Dynamic Code	1490010675	DNA extract
9/Dynamic Code	1490010676	DNA extract

Table 3: Summarized Results of comparative diagnostics

Sample No.	Dynamic Code		Umweltmykologie Berlin	Mykolabor Dresden			
	<i>S. lacrymans</i>	<i>S. himantioides</i>	<i>S. lacrymans</i>	<i>S. lacrymans</i>		<i>S. himantioides</i>	
	ITS-Target	ITS-Target	ITS-Target	ITS-Target	BenA-Target	ITS-Target	BenA-Target
1	(+)*	-	-	-	-	-	-
2	-	+	-	-	-	+	+
3	+	-	+	+	+	-	-
4	+	-	+	+	+	-	-
5	+	-	+	+	+	-	-
6	-	-	-	-	-	-	-
7	+	-	+	+	+	-	-
8	+	-	+	+	+	-	-
9	-	-	-	-	-	-	-

*very weak positive signal

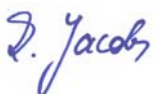
Notices from Dynamic Code:

The material samples were extracted using ZR-96 Fungal/Bacterial DNA Kit™ from Zymo Research. The DNA was then analyzed in a multiplex real-time PCR detecting both *Serpula lacrymans* and *Serpula himantioides*.

Notices from Mykolabor Dresden:

Samples were extracted using the NucleoSpin®Plant II-Kit (Macherey-Nagel). DNA-analysis was done by real-time-PCR with TaqMan probes using ITS-targets as well as Betatubulin-Targets (benA) for each of both, *S. lacrymans* and *S. himantioides*.

Dresden, 13 May 2015



Kordula Jacobs
Person in charge