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Beratung, Probenahme, Gutachten

Untersuchung zu Holzschutz, Holz- und  
Materialschädlingen, Schwammbefall,  
Insekten, Schimmelpilzen, Feuchtigkeit,  
Innenraumhygiene, und Schadstoffen

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## Certificate of Validation of QuantiTox Trichothecenes Plate Kit EP 100

The QuantiTox Plate Kit EP 100 for Trichothecenes is designed as a 96 well ELISA plate test kit for the quantitative laboratory detection of Trichothecenes, including Roridin A, E, H and L-2, Satratoxin G and H, Isosatratoxin F, Verrucarin A and J, and Verrucarol in bulk samples. The detection of Trichothecenes with this test kit is based on the reaction of antibodies with Roridin. The assay's quantitation range is specified from 0.2 to 18.0 parts per billion (ppb) of Roridin A in the sample extract.

In several tests we analyzed different materials with and without infestation of *Stachybotrys chartarum*. We also tested *Stachybotrys* grown in vitro on nutrient media. We also compared materials infested with molds other than *Stachybotrys chartarum*. The infested materials were taken from damp dwellings. The materials without mold growth were taken from normal dwellings without dampness.

### Cross Reactions with Building Materials

We tested different building materials without mold growth, such as gypsum board, cardboard, wallpaper, gypsum plaster and chipboard, with the QuantiTox Plate Kit EP 100 for Trichothecenes. None of the tested products resulted in a positive reaction for Trichothecenes.

We could not find any cross reaction with building materials.

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### **Cross Reactions with molds other than *Stachybotrys chartarum***

We tested different samples from damp dwellings with mold growth, but without *Stachybotrys chartarum*. The samples contained, amongst others, molds like *Chaetomium globosum*, *Penicillium*-, *Aspergillus*-, *Cladosporium*-, and *Acremonium* species. None of the tested samples resulted in a positive reaction for Trichothecenes.

We could not find any cross reaction with other molds. We found positive reactions only with materials which are contaminated with *Stachybotrys chartarum*.

### **Reactions with materials contaminated or infested with *Stachybotrys chartarum***

All materials contaminated with *Stachybotrys chartarum* resulted in a positive reaction when tested with the QuantiTox Plate Kit EP 100 for Trichothecenes. It is possible to make a qualitative or quantitative detection of Trichothecenes.

We also tested samples gained by wiping parquet flooring surfaces in front of an area of mold damage. These samples also produced positive results. As expected, the amounts of detected Trichothecenes decreased with increasing distance from the damage.

The test can be used for the quantitative and qualitative detection of Trichothecenes. The QuantiTox Plate Kit EP 100 for Trichothecenes is applicable for a quantitative detection of Trichothecenes in environmental materials and on surfaces. ELISA-Tests can be used in most laboratories without additional equipment or training.

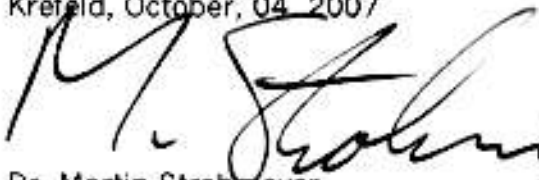
Because of different cross-reactions of different Trichothecenes with the antibodies in this test kit it is not possible to compare instrumental analysis e.g. of Satratoxin directly with the results of this ELISA-plate kit. The provided toxin-standard contains roridin.

### **Limit of detection:**

In regard to the provided toxin standard we can confirm the LOD of 0,2 ppb (0,14 ppb interpolated). The results are produced as a roridin-equivalent.

isa – Institut für Schaedlingsanalyse Dr. Martin Strohmeyer  
(Institute for Microbiology and Pest Control in Buildings)

Krefeld, October, 04, 2007



Dr. Martin Strohmeyer  
President

