Expertise: **TR-1900346-01-92-02**
1904293-01-15-02

Datum / *Date*: **2019-07-04**
KL / DR.GN

Orderer: Call Me Company Limited

Order: Testing of the antifungal activity under practical conditions, with 10^3 cfu/ml *Aspergillus brasiliensis*

Test item: PO-1900346, Anti-mold chip/ Call Me Company Ltd., sealed at delivery

order from: 2019-05-07 sample receipt: 2019-05-08

Test results:

Test strain: *Aspergillus brasiliensis* (formerly *Aspergillus niger*) ATCC 16404

The empty open shoe boxes (customary packing shoe boxes with a volume of approx. 5 litres) were placed for acclimatization in an incubator at >90% relative humidity, and 30°C, 24 hours before the start of the testing.

To simulate practical conditions after acclimatization, immediately after opening the sealed packaging one sample of the test item was transferred into a shoe box together with a culture medium plate (Malt-Agar) inoculated with the test strain *Aspergillus brasiliensis* (formerly *Aspergillus niger*) and incubated at 30°C and increased humidity (>90% relative humidity) for 35 days.

Identical tests without test item served as positive control.

After incubation the growth of the mould was measured in comparison to the identically treated positive control.

Semiquantitative rating matrix:

Growth	Antifungal activity
No growth/ No mildewing	Good antifungal effect
< 10% growth / light respectively poor mildewing	Antifungal effect
10% - < 30% growth / moderate mildewing	Moderate antifungal effect (effect limit)
30% - 60% growth / strong mildewing	Insufficient antifungal effect
> 60% growth / extremely strong mildewing	Insufficient antifungal effect

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Testing of the antifungal activity under practical conditions				
Test strain: *Aspergillus brasiliensis* (formerly *Aspergillus niger*) ATCC 16404 (mould)				
Test sample	**Germ content**	**Growth of the germs**		
	CFU/ml	**After 21d**	**After 28d**	**After 35d**
Test item Anti Mold Chip	10^3	0 % No growth	0 % No growth	0 % No growth
Positive control	10^3	100 %	100 %	100 %

CFU= Colony Forming Unit n.d. = not determined

Assessment:

Under practical conditions the tested sample (PO-1900346, Anti-mold chip/ Call Me Company Ltd., sealed at delivery) shows at a germ contents of 10^3 colony forming units up to 35 days good antifungal activity against the mould *Aspergillus brasiliensis* (formerly *Aspergillus niger)* using one piece per box.

Dr. Gerhard Nickolaus
(Managing Director)