

February 22, 2016

Results for George

Experiment with samples sent to Diatom February 13, 2016.

Samples;

1. All together
2. Whitish
3. Reddish

Standard DE in the experiment: MN51

The range of the DE concentrations in mg /kg (ppm): 400, 600, 800, 1000.

Soft wheat with 13.5% moisture content was used in the experiment.

Condition: 27 ± 1 °C, 60 ± 5 % relative air humidity

All particles of Greece samples are smaller than 25 microns, dried at 140 °C during 2 hours.

Table 1. The effectiveness of DE samples from Greece after the exposure of **2 days**

Dose (ppm)	Mortality (%)							
	All together		Whitish		Reddish		MN51	
	RW	RFB	RW	RFB	RW	RFB	RW	RFB
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400	18.0	4.0	46.0	8.0	0.0	8.0	87.0	56.0
600	28.0	28.0	54.0	34.0	2.0	0.0	86.0	64.0
800	72.0	44.0	80.0	64.0	2.0	0.0	90.0	76.0
1000	86.0	46.0	84.0	64.0	2.0	0.0	94.0	86.0

RW – Rice weevil *Sitophilus oryzae*; RFB – red flour beetle *Tribolium castaneum*

Table 2. The effectiveness of DE samples from Greece after the exposure of **4 days**

Dose (ppm)	Mortality (%)							
	All together		Whitish		Reddish		MN51	
	RW	RFB	RW	RFB	RW	RFB	RW	RFB
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400	86.0	0.0	98.0	12.0	0.0	8.0	96.0	74.0
600	97.0	44.0	100.0	52.0	2.0	0.0	100.0	94.0
800	98.0	76.0	100.0	72.0	2.0	0.0	100.0	100.0
1000	100.0	78.0	100.0	90.0	2.0	0.0	100.0	100.0

Table 3. The effectiveness of DE samples from Greece after the exposure of 6 days

Dose (ppm)	Mortality (%)							
	All together		Whitish		Reddish		MN51	
	RW	RFB	RW	RFB	RW	RFB	RW	RFB
0	12.0	0.0	12.0	0.0	12.0	0.0	12.0	0.0
400	100.0	32.0	98.0	42.0	4.0	8.0	100.0	96.0
600	100.0	64.0	100.0	62.0	2.0	4.0	100.0	100.0
800	100.0	94.0	100.0	76.0	2.0	0.0	100.0	100.0
1000	100.0	96.0	100.0	92.0	4.0	0.0	100.0	100.0