Department of Parasitology

Hebrew University-Hadassah Medical School

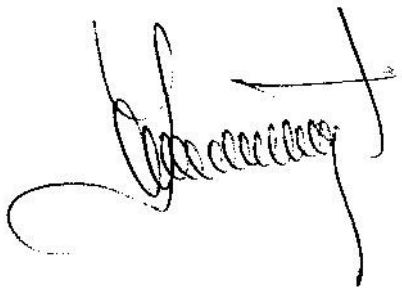
P. O. Box 12272

91120 Jerusalem

The Pediculicidal Activity of a 100% Acetic Acid Gas from Microdel Ltd.

Report compiled by:

Dr. K. Y. Mumcuoglu



April 8, 2009

The Pediculicidal Activity of a 100% Acetic Acid Gas from Microdel Ltd.

The pediculicidal and ovicidal activities of an anti-louse gas formulation (Acetic acid 100%) was tested in the laboratory on head lice according to the following procedures:

Head lice (*Pediculus humanus capitis*) were collected from the head of infested children with the help of a louse comb. They were brought to the laboratory within one hr and the experiment started within two hrs. Fifthy lice from all developmental stages were used for the test formulation, while another 30 as a control. Lice were place on human hair and introduced in a 100 ml Erlenmeyer flask. Thereafter 100 ml of gas was introduced into the flask and lice remained in contact with it for 10 min. First the gas and thereafter the lice were removed from the flask and lice were transferred to a glass container having a filter paper disc. Lice were kept at room temperature and observed first hourly, then in intervals of several hours for their mortality.

As a negative control, lice treated with regular air were used.

The results of the tests can be seen in the following table.

Hours after exposure	**No. dead lice**	
	100% Acetic acid (n=50)	**Control (n=30)**
1	50	0
2	50	0
3	50	0
4	50	2
6	50	10
8	50	14
11	50	20
20	50	29
24	50	30

Kosta Y. Mumcuoglu, PhD