

### **Study 3: Report for Pilot Study “Once Off” HIT NITZ 4 6- October 2010**

#### **Aim:**

The aim of this pilot study is to test the efficacy of a 100% natural active ingredient head lice treatment, developed by HIT NITZ 4 6.

#### **Sample/ Recruitment**

Head lice were harvested from a children hair using conditioner and a Korobond head lice comb.

#### **Methodology**

The harvested head lice were washed in fresh water and placed on a tissue until signs of life detected. Once they were alive they were placed on the researchers arm and fed. Following this 4 head lice were placed in a dish on top of two tablespoons of Hit Nitz 4 6 “Once Off” and left for 1 hour, 2 hours, 3 hours and 4 hours respectively. This was repeated with double strength “Once Off”. At each time slot the head lice were removed from the “Once Off” and washed with water and placed on tissue. These were then observed for 2 hours for signs of life. Signs of life were graded by “No movement”, “legs waving” and “walking away”.

#### **Results**

**Table 1.1 Single Strength “Once Off”**

Time 4 head lice in Solution	1 hour		2 hour		3 hour		4 hours	
Observation time following removal- hour	1	2	1	2	1	2	1	2
No Moving	2	0	1	1	4	3	4	4
Legs waving	0	1	3	3	0	1*	0	0
Walking	2	3	0	0	0	0	0	0

\*slight leg movement when poked only.

**Table 1.2 Double Strength “Once Off”**

Time 4 head lice in Solution	1 hour		2 hour		3 hour		4 hours	
Observation time following removal- hour	1	2	1	2	1	2	1	2
No Moving	0	0	0	0	1	0	4	4
Legs waving	0	0	3	2	3	3	0	0
Walking	4	4	1	2	0	1	0	0

**Table 1.3**

<b>Concentration</b> Time in Solution	<b>Single Strength</b> Alive rate % at 2 hours	<b>Single Strength</b> Death rate % at 2 hours	<b>Double Strength</b> Alive rate % at 2 hours	<b>Double Strength</b> Death rate % at 2 hours
1 hour	100	0	100	0
2 hour	75	25	100	0
3 hour	25	75	75	25
4 hour	0	100	0	100

**Conclusion**

This study clearly demonstrates that this product is effective in killing live head lice after two hours submersed in the single and double strength “Once Off” head lice treatment.