

Evaluation of the repellent efficacy of a formulation against *Ixodes ricinus* ticks using the Moving Object Bioassay

- Final Report -

Sponsor

Squito SARL
Chemin des Vernes 7
1936 Verbier
Suisse

Report No. SQ_IR_0123_01

Study Director

Date

17.7.23 
Dr. H. Dautel

Test manager

Date

17.7.23 
M.Sc. D. Geuß

General information

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|----------------|---|
| Sponsor | Squito SARL Jean Jacques Rouge Chemin des Vernes 7 1936 Verbier Suisse |
| Test Institute | IS Insect Services GmbH Motzener Str. 6 12277 Berlin Germany |
| Study director | Dr. Hans Dautel |
| Test manager | M. Sc. Daniel Geuß |
| Test location | IS Insect Services GmbH Motzener Str. 6 12277 Berlin Germany |
| Test product | TIZZY – Insect Repellent Gel |
| Time schedule | Receipt of product: 07 June 2023 Start of tests: 23 June 2023 End of tests: 23 June 2023 Study report: No. SQ_IR_0123_01 17 July 2023 |

3. Results

3.1 Overall repellency

The overall repellency determined for the test product “TIZZY – Insect Repellent Gel” was 93.1 %. The number of repelled ticks in the test runs with the test product was significantly increased compared to control runs (Table 1).

Table 1: Repellency and relative repellency (repellency corrected for the control) of the test product “TIZZY – Insect Repellent Gel” against *I. ricinus* nymphs in the MOB. Significant differences according to Fisher’s exact test. *: $P < 0.001$. $N_{\text{ticks}} = 30$.**

| Test product | Repellency (%) | Relative repellency (%) | Significance |
|------------------------------|----------------|-------------------------|--------------|
| Unreated Control | 3.3 | - | - |
| TIZZY – Insect Repellent Gel | 93.3 | 93.1 | *** |