

SUCCESS
GADGET®



Where there's a will
there's a way

Nanotechnology
Textile
Development
Research
Cosmetic
Wear

SIL2U® SPRAY ANTI-INSECT

Biteprevent Plus total solution

Guidelines for the efficacy assays

- Documentation issued the European Commission: Technical Notes for Guidance. PRODUCT TYPE 18 – INSECTICIDES, ACARICIDES AND PRODUCTS TO CONTROL OTHER ARTHROPODS and PRODUCT TYPE 19 – REPELLENTS AND ATTRACTANTS (only concerning arthropods). CA-Dec12-Doc.6.2.a – Final.
- USA EPA (USA Environment Protection Agency), EPA Product performance test guidelines OPPTS 810-3700: insect repellents to be applied on human skin, July 7, 2010.
- WHO Guidelines for efficacy testing of mosquito repellents for human skin (WHO/CDS/NTD/WHOPES/2009.4).

Species used in the assays



Aedes aegypti Mosquito

Transmission of **dengue** and **Zika**



Sil2U[®] Spray

“Biteprevent Plus total solution”



Table 1: Obtained results for Aedes aegypti mosquitoes, after spray application over textiles.

| Assay | Efficacy (%) | Volunteers |
|-------------------------------|--------------|------------|
| As applicated | 97.9 | 3 |
| After 3 months of application | 97.8 | |
| After 5 washes ¹ | 62.7 | |

Table 2: Obtained results for Aedes aegypti mosquitoes, after spray application over the skin (bare hand).

