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Summary Repello Barrier Spray Test Report

Product Stability

STUDY: The Storage and Stability of Repello Barrier Spray Insect Repellent with Periodic Gas Chromatography Agent Content Definition, Dr. Alois Muehlhofer, LHS Laboratories, Department of Entomology, Wiener Neustadt, Austria

Test Period: 5 years, from 23.10.1999 to 22.10.2004 Preliminary Report after 3 ½ years
Original Packaging-Bottle = HD/PE hollow blown container with screw thread, 100 ml, cylindrical shape, white PP finger tip spray, white, and also at a room temperature of 18°C to 25°C, and at elevated controlled temperature of 40C.

Periodical gas chromatography tests every 6 months, on the contents of the active agent in order to reliably establish possible changes in the contents.

Results: The gas chromatography examination and analysis of tests on the active agent contents showed after the first 6-monthly test, an increase in the agent of 0.60 % by mass, which after the subsequent nine tests held at 6-monthly intervals remained constant and is attributed therefore to the abundance of mobile substances (ether oils, evaporation etc.) in the bottles. The product's agent is stable under normal and elevated temperature conditions with a shelf life of 5 years.

Mosquito Spray

STUDY: Cage Test of Repello Barrier Spray vs 30% DEET in Repelling Aedes Aegypti. Dr. Arezki Izri, Laboratoire de Parasitologie de la Faculté de Médecine Bobigny, Franc, from October 2004 to January 2005

Results: Repello Barrier Spray provided protection for up to 6 hours. The 30% DEET product provided protection for up to 6 hours. We conclude that the Repello Geraniol Spray is equivalent to a 30% DEET product.

STUDY: Comparison Cage Test Report on the Effectiveness of Repello Barrier Spray vs 20% DEET in Repelling Aedes Albopictus (Asian Tiger Mosquito), Dr. Alois Muehlhofer, LHS Laboratories, Department of Entomology, Wiener Neustadt, Austria, Jan 2001

Results: Repello Barrier Spray provided 5 hours of protection vs. 4 hrs for the DEET Product.

STUDY: Cage Test Report on the Effectiveness of Repello Barrier Spray vs. DEET (20%) in Repelling Anopholes Gambiae. Dr. Alois Muehlhofer, LHS Laboratories, Department of Entomology, Wiener Neustadt, Austria Feb 2002

Results: Repello Barrier Spray provided 8 hours of protection vs. 6 hrs for the 20% DEET Product.

Wristband

STUDY: Cage Test Report on the Effectiveness of Bracelet Anti-Moustiques in Repelling Mosquitoes of the Species *Aedes Aegypti*, Dr. Alois Muehlhofer, LHS Laboratories, Department of Entomology, Wiener Neustadt, Austria, January-February 2007

Results: On average for all 5 test persons, the repellent effect of the test product Repello Bracelet Anti Moustiques was very good for up to 27 days (21 to 27 days, arithmetic mean: 24.6 days) after application. Test person 3, who was bitten on day 21 for the first time, continued the test until day 27. This showed that the biting protection doesn't disappear immediately but seems to slowly decrease.

The repellent effect leads to different results when comparing numbers of landing mosquitoes with numbers of approaching mosquitoes. The number of landing mosquitoes was very low until approximately day 20 after the treatment and then increased slightly as the test continued. It was still good at the end of the test, although it remarkably decreased.

The mosquitoes approached quite near in the first test period in relatively big numbers but did not land. This number stayed relatively constant over the whole time period which indicates that short range repellency predominates.