EFFICACY OF FLUAZURON AND FLUMETHRIN COMBINATION POUR-ON FORMULATION (DRASTIC DEADLINE EXTREME*) AGAINST BOOPHILUS MICROPLUS ON ARTIFICIALLY AND NATURALLY INFESTED CATTLE

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The objective of the present study was to evaluate the efficacy of Fluazuron 2.5% and Flumethrin 1% combination pour-on formulation against Boophilus microplus in cattle.

Methodology: The efficacy was evaluated in pen and field trials and animals artificially infested with approximately 1,850 larvae of susceptible strain (Bm Susc) of Boophilus microplus for the pen trial and Boophilus microplus Isla Strain (Bm Isla) for the field trial, three times a week at pre and post treatment. Both strains were raised at CENAPA under laboratory conditions. Before the treatment (day 0), animals in the pen trial had an average infestation load of over 50 Boophilus microplus ticks in engorgement process. In the field trials, the control and treatment animals had on an average of 180 ticks. On day 0, the animals were treated with the product, at a dose of 1 ml per 10 kg/ body weight, once on the back of the animal, from the front of shoulders to the base of the tail. Engorged ticks were collected during this period and sent to the laboratory for their incubation and reproductive parameters follow-up.

Results: In the pen trial from day 1 post treatment to the end of the trial the control group had an average tick count of 151 while in the treated animals it was below 40.

Field trial: The control group on day 4 post treatment had an average of over 100 ticks, while the treated animals had 16 ticks. During both trials, there was a marked negative impact on engorgement of ticks and their reproductive potential obtaining an inhibition index of their potential parameters (IRP) of 98.36% at day 43 post treatment.

Conclusions: The efficacy result obtained from pen and field trials indicated that the product can be considered as a good alternative for the control of Boophilus microplus infested cattle in México.

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