CIPAC STATUS REPORT

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MT 195 Wash resistance index of LN

Allocated to DAPF

CIPAC methods published in:

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CIPAC 60th meeting, June 2016 in Tokyo

Wash resistance index of long lasting insecticide net (Duranet Plus) containing alpha-cypermethrin 0.58 % w/w and piperonyl butoxide 0.2 % w/w by Mr Atmakuru Ramesh (5053)

Mr Ramesh presented a study for the determination of the wash resistance index of Duranet Plus containing alpha-cypermethrin 0.58 % w/w and piperonyl butoxide 0.2 % w/w. Pieces of the net were subjected to successive washing-rinsing-heating cycles and the total active ingredient content was determined in washed samples after a number of washings. The wash resistance index was determined by the decrease of the total active ingredient content after several cycles using the appropriate analytical method following CIPAC MT 195.

Alpha-cypermethrin content in the net sample was determined by GC-FID using CIPAC 454/LN/M/3.2 as reference method.

Piperonyl butoxide content in the long lasting insecticide net was determined by GC-FID using CIPAC 33/LN/M/3.0 as reference method.

The wash resistance index was calculated after the 4 washing-rinsing-heating cycles.

The retention indexes calculated from data before wash and after 4th wash were 99.54% and 93.56%.

The following comments were received from the meeting:

- In case of alpha-cypermethrin three point calibration was used in case of piperonyl butoxide five point calibration was used. Answer: linearity of the calibration was excellent also with three points.

No other comments or questions.

Closed Meeting:

It was accepted that the applicability of the method has been proven.