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UPASI TEA RESEARCH FOUNDATION

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DR/ENT/PPF-R/2001 04.10.2001

Report on the Lab bioefficacy of GB+ against red spider mites of tea

In the laboratory, a study was conducted to evaluate the efficacy of GB+ (herbal based insect repellent) against red spider mites by leaf disc method. For this purpose, leaf discs of 2 cm diameter cut from tea leaves were used and a known number of red spider mites were introduced on to these leaf discs. Spraying was done with a fine atomizer. Unsprayed leaf discs were kept as control.

In the present study, the treatments were replicated five times and efficacy of the formulation was determined on 24, 48, 72 and 96 hours after imposing the treatment. Results of the lab bioefficacy studies against red spider mites are given in Table 1.

Table 1. Laboratory evaluation of GB+ against red spider mites of tea

Target pest	Dosage	Percentage mortality after*			
		24 h	48 h	72 h	96h
Red spider mite	1.50 ml/l	00.00	22.00	44.00	62.00
(*Oligonychus*	2.00 ml/l	00.00	28.00	52.00	72.00
coffeae)	2.50 ml/l	00.00	42.00	74.00	86.00

* Mean of five replications

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DR/ENT/PPF-R/2001 04.10.2001

Report on the Lab bioefficacy of GB+ against purple mites of tea

In the laboratory, a study was conducted to evaluate the efficacy of GB+ (herbal based insect repellent) against purple mites by leaf disc method. For this purpose, leaf discs of 2 cm diameter cut from tea leaves were used and a known number of purple mites were introduced on to these leaf discs. Spraying was done with a fine atomizer. Unsprayed leaf discs were kept as control.

In the present study, the treatments were replicated five times and efficacy of the formulation was determined on 24, 48,72 and 96 hours after imposing the treatment. Results of the lab bioefficacy studies against purple mites are given in Table 1.

Table 1. Laboratory evaluation of GB+ against purple mites of tea

Target pest	Dosage	Percentage mortality after*			
		24 h	48 h	72 h	96h
Purple mite (*Calacarus carinatus*)	1.50 ml/l	00.00	26.00	46.00	66.00
	2.00 ml/l	00.00	34.00	54.00	74.00
	2.50 ml/l	00.00	46.00	74.00	84.00

* Mean of five replications

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