

Table 5 Number of positive samples of the three mutations in susceptible samples in the bioassay test

Insecticide	No. of samples	S989P				V1016G				F1534C			
		SS	RS	RR	ND	SS	RS	RR	ND	SS	RS	RR	ND
Number													
Cyfluthrin	20	14	1	0	5	6	11	3	0	16	4	0	0
Permethrin	15	11	3	0	1	3	10	2	0	13	2	0	0
Lambda-Cyhalothrin	20	18	2	0	0	9	11	0	0	18	2	0	0
Frequency (%)													
Cyfluthrin	20	95	5	0.0	2.5	30	55	15	42.5	80	20	0.0	0
Permethrin	15	80	20	0.0	10	20	67	13	46.5	86.6	13.4	0.0	0
Lambda-Cyhalothrin	20	90	10	0.0	5	45	55	0.0	22.5	90	10	0.0	0

SS = susceptible homozygote. RS = mutant heterozygote. RR = resistant mutant homozygote; ND = not detected.