

S8 Table. Toxicity of four insecticides to w^{III8} adults and heterozygous adults bearing G3'™D3 mutations

Insecticide	Genotype	Slope ± SE	LC ₅₀ (95% CI [†]) (mg/L)	χ^2 (df)	P value	RR [‡]
Fipronil	w^{III8}	5.77±0.71	0.82 (0.76-0.89)	7.73 (13)	0.861	1.00
	G3'™D3/TM2 Ubx^{l30}	5.23±0.67	0.78 (0.72-0.85)	5.69 (13)	0.957	0.95
	G3'Q™D3/TM2 Ubx^{l30}	4.61±0.63	0.84 (0.76-0.92)	5.48 (13)	0.963	1.02
	G3'S™D3/TM2 Ubx^{l30}	5.38±0.68	0.80 (0.74-0.87)	2.93 (13)	0.998	0.98
Avermectin	w^{III8}	1.74±0.23	33.80 (26.36-45.33)	7.22 (13)	0.891	1.00
	G3'™D3/TM2 Ubx^{l30}	1.65±0.22	30.64 (23.70-41.14)	6.08 (13)	0.943	0.91
	G3'Q™D3/TM2 Ubx^{l30}	1.70±0.23	35.00 (27.16-47.36)	7.42 (13)	0.879	1.04
	G3'S™D3/TM2 Ubx^{l30}	1.60±0.22	29.67 (22.81-39.90)	8.14 (13)	0.834	0.88
Fluralaner	w^{III8}	2.07±0.25	1.89 (1.50-2.33)	6.87 (13)	0.909	1.00
	G3'™D3/TM2 Ubx^{l30}	2.21±0.27	1.64 (1.31-2.00)	4.21 (13)	0.989	0.87
	G3'Q™D3/TM2 Ubx^{l30}	2.27±0.27	1.76 (1.42-2.14)	9.19 (13)	0.759	0.93
	G3'S™D3/TM2 Ubx^{l30}	2.26±0.27	1.75 (1.41-2.13)	9.42 (13)	0.741	0.93
Broflanilide	w^{III8}	2.40±0.27	0.81 (0.66-0.97)	8.86 (13)	0.783	1.00
	G3'™D3/TM2 Ubx^{l30}	2.43±0.28	0.75 (0.61-0.90)	4.90 (13)	0.977	0.93
	G3'Q™D3/TM2 Ubx^{l30}	2.44±0.28	0.81 (0.67-0.98)	7.58 (13)	0.870	1.00

G3' S _{TMD3} /TM2 <i>Ubx</i> ^{l30}	2.57±0.29	0.86 (0.72-1.03)	7.73(13)	0.861	1.06
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[†] CI, confidence intervals.

[‡] RR indicates resistance ratio: resistance ratio = LC₅₀ value of a heterozygous G3' _{TMD3} mutant/LC₅₀ value of the wild-type *w¹¹¹⁸*.