

**PROTOCOLO PARA AVALIAÇÃO DE SUSCEPTIBILIDADE E MONITORAMENTO DA RESISTÊNCIA A INSETICIDAS QUÍMICOS USADOS NO CONTROLE DE MOSQUITOS/**

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**Tabela 1. Concentrações Diagnóstico, mg i.a./L (ppm) para larvas de mosquitos de 3º ou 4º estágio.\***

<b>Inseticida</b>	<b><i>Aedes aegypti</i></b>	<b><i>Ae. albopictus</i></b>	<b><i>Cx. quinquefasciatus</i></b>
<i>Bacillus sphaericus</i> (Bs) <sup>&amp;</sup>			0,1
<i>Bacillus thuringiensis israelensis</i> (Bti)	0,25		0,3
Methoprene (p/4ºestádio)	0,11		0,02
Temephós	0,012	0,012 e 0,04	0,004
Permetrina	0,01		0,01
Deltametrina			
λ-Cyhalotrina	0,01		
Cipermetrina	0,012		0,01
Ciflutrina	0,012		0,01
β-Ciflutrina	0,05		0,02
Propoxur	10		

\*Dados de Amin & White (1984), Wesson (1990), OMS (1992), Cheikh et al., 1995, Mazzarri & Georghiou (1995), Campos & Andrade (2001,2003) ou estimados sobre dados da CL<sub>90</sub> ou CL<sub>95</sub> de linhagens de campo. <sup>&</sup>Produto comercial, Bs 2362 (VectoLex WDG, 650BsITU/mg).

**Tabela 2. Concentrações Letais Medianas (CL<sub>50</sub>) e Concentrações Letais 95% (CL<sub>95</sub>) em ppm de i.a. de produtos comerciais ou grau técnico para larvas de 3º ou 4º estágio de mosquitos.**

<b>Inseticida</b>	<b><i>Aedes aegypti</i></b>		<b><i>Aedes albopictus</i></b>		<b><i>Culex quinquefasciatus</i></b>	
	LC <sub>50</sub>	LC <sub>95</sub>	LC <sub>50</sub>	LC <sub>95</sub>	LC <sub>50</sub>	LC <sub>95</sub>
<b>Bs SPH88°</b>					0,0032	
<b>Bs 2362</b>					0,006	0,024*
					0,012	0,044 <sup>#</sup>
<b>Bti<sup>1</sup></b>	0,06	0,37*	0,0692	0,1174*	0,046	0,18
	0,014	0,055*			0,009	0,057*
<b>Methoprene<sup>&amp;</sup></b>	0,00017		0,002	0,0081*	0,0023	0,009*
	0,00033	0,0013*				
<b>Pyriproxyfen<sup>&amp;</sup></b>	0,00033	0,0026 e 0,0005	0,00011	0,00038*	0,000018	0,00016
<b>Temephós</b>	0,0071	0,011	0,0033	0,0050*	0,001196 <sup>2</sup>	0,00292 <sup>2</sup>
<b>Chlorpyrifos</b>					0,0016	0,0022
<b>Permetrina</b>	0,001	0,004				
<b>Deltametrina</b>			0,0015	0,0047*	0,003	
<b>λ-Cyhalotrina</b>		0,0053			0,001	0,0027
<b>Cipermetrina</b>	0,00062	0,0017			0,0008	
<b>Ciflutrina</b>	0,0012	0,0024				
<b>β-Ciflutrina</b>	0,0029	0,0088				
<b>Carbosulfan</b>					0,0023	0,0069
<b>Propoxur</b>	1,1	3,2			0,14	0,25

Obs.: As CL<sub>50</sub> e a CL<sub>95</sub> são de registros na literatura para linhagens padrão (Henrick,1982; Amin & White,1984; Brown,1986; Schaefer et al.,1988; WHO,1992; Mazzarri & Georghiou,1995; Rawlins & Wan,1995; Chandre et al., 1997; Silva-Filha & Regis, 1997; González et al.,1999; Wirth & Georghiou,1999; Small et al.,1999; Amalraj et al.,2000; Campos & Andrade, 2001; Gaven et al., 2001; WHO,2001; Campos & Andrade, 2003; Zahiri et al., 2004), não são necessariamente da mesma linhagem ou experimento. <sup>°</sup>Instituto Pasteur, <sup>1</sup>Vectobac 12AS,

<sup>2</sup>Temephos 1G, \*CL<sub>90</sub>/IE<sub>90</sub>. <sup>8</sup>contra 4º estágio e verificado como a inibição de emergência (IE) de adultos normais. Normalmente estes registros têm sido obtidos à temperatura de 25°C. <sup>#</sup>CL<sub>50/90</sub> Linhagem Unicamp (janeiro-05), produto comercial VectoLex WDG.

**Tabela 4. Concentrações (%) de solução de Inseticida Impregnadas nos papeis para avaliar susceptibilidade em adultos e tempo (h) de exposição (% / h).**

Inseticida	<i>Aedes aegypti</i>	<i>Aedes albopictus</i>	<i>Culex quinquefasciatus</i>
Propoxur	1 / 1		0,1 / 2
Permetrina	0,25 / 1		0,25 / 3
Deltametrina			0,025 / 1
λ-Cyhalotrina	0,03 / 1		0,025 / 1
Cipermetrina			

Dados de WHO (1992), Mazzarri (1995).

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