

**CATALOGUE FOR INSECTICIDE SUSCEPTIBILITY  
TEST KITS AND IMPREGNATED PAPERS FOR WHO TUBE TESTS**

**PRICE LIST (effective from July 2022)**

**Notes:**

1. To place order, please use the Order Form available at <https://www.who.int/teams/control-of-neglected-tropical-diseases/interventions/strategies/vector-control/insecticide-resistance>
2. For bioassays with mosquitoes and sand flies, orders may be placed either for full test kits or selected items such as impregnated papers only.
3. For mosquito larval susceptibility tests, sets of insecticide solutions can be ordered. For other species, only full kits are available.
4. Insecticide solutions containing volatile solvents are air freighted in accordance with the air transport regulations. The maximum total volume of solvents allowed per parcel is 5 litres (i.e., 50 ml x 100 bottles).
5. The prices shown in the list below do not include the cost of shipment and custom clearance charges. Custom clearance is procurer's responsibility.
6. All orders include the price in US Dollars. The invoice will be prepared according to the current currency exchange rate for the month of the actual dispatch of ordered items.
7. The kits and impregnated papers are manufactured by the Universiti Sains Malaysia according to a Memorandum of Understanding between World Health Organization and the Universiti Sains Malaysia signed in August 2021.

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### LIST OF KITS AND OTHER ITEMS

No.	Test kits/items	Catalogue page no.
1	Susceptibility test kit for adult mosquitoes (equipment only) *	3
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3	Items that can be ordered additionally*	8
4	Mosquito larval susceptibility test kits and solutions (WHO reference document no. WHO/VBC/81.807)	9
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**Notes:**

\*For current WHO reference documents, refer to the WHO manual and Standard Operating Procedures (SOPs) available in: <https://www.who.int/teams/control-of-neglected-tropical-diseases/vector-ecology-and-management/vector-control/insecticide-resistance>.

\*\* Includes 5X and 10X concentrations of pyrethroids for resistance intensity bioassays

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**SUSCEPTIBILITY TEST KIT FOR ADULT MOSQUITOES\*****Equipment per kit****Price per kit US\$ 78.00**

(as detailed below; additional optional items listed in the catalogue can also be ordered)

- (4) Plastic tubes with screw caps with a red dot; (6) tubes with a green dot; (2) tubes with a yellow dot;
- (6) slide units;
- (40) sheets of plain white paper (15 cm x 12 cm size) for lining the holding tubes;
- (6) metal clips (stainless steel made; silver colour); (6) metal clips (copper made);
- (2) glass tube aspirators (straight);
- (2) plastic tube aspirators (straight);
- (2) rubber tubings for aspirators, (60 cm length each);
- (2) glass mouthpieces for rubber tubings of aspirators;
- (1) roll of transparent adhesive tape;
- (1) report form;
- (1) log-probit paper.

\* Download the WHO manual and the SOPs from the WHO website:

[Control of Neglected Tropical Diseases](#) or [Global Malaria Programme](#)

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**INSECTICIDE IMPREGNATED PAPERS FOR ADULT MOSQUITOES**

Note: Refer to the WHO manual for the discriminating concentrations of insecticides available here: [Control of Neglected Tropical Diseases](#) or [Global Malaria Programme](#)

**2A. *Anopheles* species (discriminating concentrations)**

Insecticide class/ synergist	Insecticide	Species* for which DCs are validated	Discriminating concentration	US\$ per box (with 8 papers)
Pyrethroids	Alpha- cypermethrin	<i>An. funestus</i> s.s., <i>An. gambiae</i> s.s., <i>An. minimus</i>	0.05%	22.00
		<i>An. albimanus</i> , <i>An. stephensi</i>	0.30%	26.00
	Cyfluthrin	<i>An. aconitus</i> , <i>An. albimanus</i> , <i>An.</i> <i>arabiensis</i> , <i>An. dirus</i> , <i>An. freeborni</i> , <i>An. gambiae</i> s.s., <i>An. maculatus</i> , <i>An.</i> <i>minimus</i> , <i>An. stephensi</i>	0.15%	22.00
	Deltamethrin	<i>An. aconitus</i> , <i>An. albimanus</i> , <i>An.</i> <i>arabiensis</i> , <i>An. dirus</i> , <i>An. freeborni</i> , <i>An. gambiae</i> s.s., <i>An. maculatus</i> , <i>An.</i> <i>minimus</i> , <i>An. stephensi</i>	0.05%	22.00
	Etofenprox	<i>An. aconitus</i> , <i>An. albimanus</i> , <i>An.</i> <i>arabiensis</i> , <i>An. dirus</i> , <i>An. freeborni</i> , <i>An. gambiae</i> s.s., <i>An. maculatus</i> , <i>An.</i> <i>stephensi</i>	0.50%	22.00
	Lambda- cyhalothrin	<i>An. aconitus</i> , <i>An. albimanus</i> , <i>An.</i> <i>arabiensis</i> , <i>An. dirus</i> , <i>An. freeborni</i> , <i>An. gambiae</i> s.s., <i>An. maculatus</i> , <i>An.</i> <i>minimus</i> , <i>An. stephensi</i>	0.05%	22.00
		<i>An. sacharovi</i>	0.10%	22.00
	Permethrin (40:60 cis:trans isomer ratio)	<i>An. aconitus</i> , <i>An. albimanus</i> , <i>An.</i> <i>arabiensis</i> , <i>An. dirus</i> , <i>An. freeborni</i> , <i>An. gambiae</i> s.s., <i>An. maculatus</i> , <i>An.</i> <i>minimus</i> , <i>An. stephensi</i>	0.75%	22.00
Carbamates	Bendiocarb	NA	0.10%	22.00
	Carbosulfan**	NA	0.40%	-
	Propoxur**	NA	0.10%	-
Organochlorines	DDT	NA	4.00%	16.00
	Dieldrin**	NA	4.00% / 0.4%	-
Organophosphates	Fenitrothion**	NA	1.00%	-
	Malathion	NA	5.00%	22.00
	Pirimiphos- methyl	<i>An. albimanus</i> , <i>An. stephensi</i> , <i>An.</i> <i>minimus</i> , <i>An. funestus</i> s.s.	100 mg/m <sup>2</sup>	22.00
		<i>An. gambiae</i> s.s	170 mg/m <sup>2</sup>	22.00
Synergist	Piperonyl butoxide (PBO)	NA	4%	22.00

\*For testing susceptibility with *Anopheles* spp. not listed above, use papers with the highest discriminating concentration for the respective insecticide.

\*\*These impregnated papers are no longer supplied by USM due to lack of supply of active ingredients.

NA: information on individual species is not available.

<b>2B. <i>Anopheles</i> species: 5X and 10X of discriminating concentrations of pyrethroids</b>					
<b>Insecticide</b>	<b>Species for which DCs are validated</b>	<b>5X DC</b>	<b>US\$ per box (with 8 papers)</b>	<b>10X DC</b>	<b>US\$ per box (with 8 papers)</b>
Alpha-cypermethrin	<i>An. funestus</i> s.s., <i>An. gambiae</i> s.s., <i>An. minimus</i>	0.25%	26.00	0.50%	30.00
	<i>An. albimanus</i> , <i>An. stephensi</i>	1.50%	26.00	3.00%	30.00
Cyfluthrin	<i>An. aconitus</i> , <i>An. albimanus</i> , <i>An. arabiensis</i> , <i>An. dirus</i> , <i>An. freeborni</i> , <i>An. gambiae</i> s.s., <i>An. maculatus</i> , <i>An. minimus</i> , <i>An. stephensi</i>	0.75%	26.00	1.50%	30.00
Deltamethrin	<i>An. aconitus</i> , <i>An. albimanus</i> , <i>An. arabiensis</i> , <i>An. dirus</i> , <i>An. freeborni</i> , <i>An. gambiae</i> s.s., <i>An. maculatus</i> , <i>An. minimus</i> , <i>An. stephensi</i>	0.25%	26.00	0.50%	30.00
Etofenprox	<i>An. aconitus</i> , <i>An. albimanus</i> , <i>An. arabiensis</i> , <i>An. dirus</i> , <i>An. freeborni</i> , <i>An. gambiae</i> s.s., <i>An. maculatus</i> , <i>An. stephensi</i>	2.50%	26.00	5.00%	30.00
Lambda-cyhalothrin	<i>An. aconitus</i> , <i>An. albimanus</i> , <i>An. arabiensis</i> , <i>An. dirus</i> , <i>An. freeborni</i> , <i>An. gambiae</i> s.s., <i>An. maculatus</i> , <i>An. minimus</i> , <i>An. stephensi</i>	0.25%	26.00	0.50%	26.00
	<i>An. sacharovi</i>	0.50%	26.00	1.00%	30.00
Permethrin (40:60 cis:trans isomer ratio)	<i>An. aconitus</i> , <i>An. albimanus</i> , <i>An. arabiensis</i> , <i>An. dirus</i> , <i>An. freeborni</i> , <i>An. gambiae</i> s.s., <i>An. maculatus</i> , <i>An. minimus</i> , <i>An. stephensi</i>	3.75%	26.00	7.50%	30.00

<b>2C. <i>Aedes</i> species (discriminating concentrations)</b>				
<b>Insecticide class</b>	<b>Insecticide</b>	<b>Species for which DCs are validated</b>	<b>Discriminating concentration</b>	<b>US\$ per box (with 8 papers)</b>
Pyrethroids	Alpha-cypermethrin	<i>Ae. aegypti</i>	0.05%	22.00
		<i>Ae. albopictus</i>	0.08%	22.00
	Deltamethrin	<i>Ae. aegypti</i> and <i>Ae. albopictus</i>	0.03%	22.00
	Lambda-cyhalothrin	<i>Ae. aegypti</i>	0.05%	22.00
		<i>Ae. albopictus</i>	0.08%	22.00
	Permethrin (40:60 cis:trans isomer ratio)	<i>Ae. aegypti</i> and <i>Ae. albopictus</i>	0.4%	22.00
Carbamates	Bendiocarb	<i>Ae. aegypti</i> and <i>Ae. albopictus</i>	0.20%	22.00
	Propoxur*	<i>Aedes</i> spp.	0.10%	22.00
Organophosphates	Chlorpyrifos-ethyl*	<i>Ae. aegypti</i> and <i>Ae. albopictus</i>	1.00%	22.00
	Pirimiphos-methyl	<i>Ae. aegypti</i> and <i>Ae. albopictus</i>	60 mg/m <sup>2</sup>	22.00
	Malathion	<i>Ae. aegypti</i>	1.5%	22.00
		<i>Ae. albopictus</i>	5.0%	22.00

\*These impregnated papers are no longer supplied by USM due to lack of supply of active ingredients.

<b>2D. <i>Culex quinquefasciatus</i> (discriminating concentrations)</b>				
<b>Insecticide class</b>	<b>Insecticide</b>	<b>Species for which DCs are validated</b>	<b>Discriminating concentration</b>	<b>US\$ per box (with 8 papers)</b>
Organochlorine	DDT	<i>Cx. quinquefasciatus</i>	0.04%	16.00
Pyrethroids	Alpha-cypermethrin	<i>Cx. quinquefasciatus</i>	0.5%	22.00
		<i>Cx. quinquefasciatus</i>	1%	22.00
		<i>Cx. quinquefasciatus</i>	2%	22.00
		<i>Cx. tarsalis</i>	0.05%	22.00
	Deltamethrin	<i>Cx. quinquefasciatus</i>	0.4%	22.00
		<i>Cx. quinquefasciatus</i>	0.8%	22.00
		<i>Cx. tarsalis</i>	0.05%	22.00
	Lambda-cyhalothrin	<i>Cx. quinquefasciatus</i>	0.03%	22.00
Permethrin (40:60 cis:trans isomer ratio)	<i>Cx. quinquefasciatus</i>	0.25%	22.00	
Carbamates	Bendiocarb	<i>Cx. quinquefasciatus</i>	0.4%	22.00
		<i>Cx. quinquefasciatus</i>	0.8%	22.00
		<i>Cx. tarsalis</i>	0.15%	22.00
	Propoxur*	<i>Cx. quinquefasciatus</i>	0.10%	22.00
Organophosphates	Fenitrothion*	<i>Cx. quinquefasciatus</i>	1%	22.00
	Malathion	<i>Cx. quinquefasciatus</i>	5%	22.00
		<i>Cx. tarsalis</i>	5%	22.00

\*These impregnated papers are no longer supplied by USM due to lack of supply of active ingredients.

<b>2E. Sand fly species (discriminating concentrations)</b>				
<b>Insecticide class</b>	<b>Insecticide</b>	<b>Species for which DCs are validated by WHO</b>	<b>Discriminating concentration</b>	<b>US\$ per box (with 8 papers)</b>
Pyrethroids	Alpha-cypermethrin	<i>Ph. papatasi</i>	0.10%	22.00
		<i>Ph. argentipes</i>	0.10%	22.00
		<i>Lu. longipalpis</i>	0.10%	22.00
		<i>Ph. dubosqui</i>	0.02%	22.00
		<i>Ph. longipes</i>	1.00%	22.00
	Deltamethrin	<i>Ph. papatasi</i>	0.05%	22.00
		<i>Ph. argentipes</i>	0.05%	22.00
		<i>Ph. dubosqui</i>	0.02%	22.00
		<i>Ph. longipes</i>	0.05%	22.00
		<i>Lu. longipalpis</i>	0.05%	22.00
	Permethrin (40:60 cis:trans isomer ratio)	<i>Ph. papatasi</i>	1.00%	22.00
		<i>Ph. argentipes</i>	1.00%	22.00
		<i>Ph. dubosqui</i>	0.50%	22.00
		<i>Ph. longipes</i>	1.00%	22.00
		<i>Lu. longipalpis</i>	0.50%	22.00
Carbamates	Bendiocarb	<i>Ph. papatasi</i>	0.05%	22.00
		<i>Ph. argentipes</i>	0.10%	22.00
		<i>Ph. dubosqui</i>	0.05%	22.00
		<i>Ph. longipes</i>	0.40%	22.00
		<i>Lu. longipalpis</i>	0.15%	22.00
Organophosphates	Malathion	<i>Ph. papatasi</i>	5.00%	22.00
		<i>Ph. argentipes</i>	2.00%	22.00
		<i>Ph. dubosqui</i>	5.00%	22.00
		<i>Ph. longipes</i>	5.00%	22.00
		<i>Lu. longipalpis</i>	2.00%	22.00
	Pirimiphos-methyl	<i>Ph. papatasi</i>	100 mg/m <sup>2</sup>	22.00
		<i>Ph. argentipes</i>	100 mg/m <sup>2</sup>	22.00
		<i>Ph. dubosqui</i>	50 mg/m <sup>2</sup>	22.00
		<i>Ph. longipes</i>	100 mg/m <sup>2</sup>	22.00
		<i>Lu. longipalpis</i>	100 mg/m <sup>2</sup>	22.00

<b>2F. Control papers for <i>Anopheles</i>, <i>Aedes</i>, <i>Culex</i> and sand fly species</b>	
<b>Control</b>	<b>US\$ per box (with 8 papers)</b>
Organochlorine Control papers (with risella oil)	16.00
Organophosphate or Carbamate Control papers (with olive oil)*	22.00
Pyrethroid or PBO Control papers (with silicone oil)	22.00
*The pirimiphos-methyl Control papers are treated with acetone alone (i.e. no carrier oil is used).	

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**ITEMS THAT CAN BE ORDERED ADDITIONALLY\***

<b>Item(s)</b>	<b>Price per unit (US\$)</b>
Mouth aspirator transparent plastic (straight) **	6.00
Mouth aspirator transparent plastic (bent end) ***	6.00
Mouth aspirator glass (straight) **	8.00
Mouth aspirator glass (bent end) ***	8.00
Bioassay cones (plastic conical chambers)	1.00
Plastic tubes for tube tests with adult mosquitoes/sand flies – 1 tube with a <b>RED</b> dot (exposure tube), 1 tube with a <b>GREEN</b> dot (holding tube) and 1 slide unit	10.00
Plastic tubes for tube tests with adult mosquitoes/sand flies – 1 tube with a <b>YELLOW</b> dot (exposure tube for control papers), 1 tube with a <b>GREEN</b> dot (holding tubes) and 1 slide unit	10.00
Copper made clips for exposure tubes	1.00
Metal clips (stainless steel made; silver colour) for holding tubes	1.00
Wax-free paper cups for holding insects (320 mL capacity)	1.00

## Notes:

\*Available for purchase separately. Please indicate the item in Section G of the [Order Form](#).

\*\* Aspirator (straight): includes 1 straight glass/transparent plastic tube, 1 rubber tubing, 1 glass mouthpiece for WHO test tubes.

\*\*\* Aspirator (bent): includes 1 bent glass/transparent plastic tube, 1 rubber tubing, 1 glass mouthpiece for cone test & bottle bioassay.

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**MOSQUITO LARVAL SUSCEPTIBILITY TEST KITS AND SOLUTIONS**  
 (WHO/VBC/81.807)

**4A. Equipment kit (as detailed below)**
**Price per kit US\$ 38.00**

- (1) pipette 1 ml, white marking;
- (1) pipette 1 ml, red marking;
- (1) pipette 1 ml, yellow marking;
- (1) pipette 1 ml, black marking;
- (1) pipette 1 ml, without marking;
- (5) rubber suction bulbs for above;
- (3) pipettes (eye droppers);
- (3) bulbs for eye dropper;
- (2) stainless steel wire loops;
- (1) nylon netting (30 cm<sup>2</sup>);
- (1) adhesive glue;
- (1) polyethylene bottle, 50 ml;
- (1) instruction sheet WHO/VBC/81.807;
- (1) report form;
- (1) log-probit paper

**4B. Insecticide/control solutions (serial dilutions) for larval susceptibility tests  
(50 ml bottle per concentration)\***

		<b>US\$ per bottle</b>
Malathion	781.25 mg/L, 156.25 mg/L, 31.25 mg/L, 6.25 mg/L	3.50
Temephos	156.25 mg/L, 31.25 mg/L, 6.25 mg/L, 1.25 mg/L	3.50
Fenitrothion	31.25 mg/L, 6.25 mg/L, 1.25 mg/L, 0.25 mg/L	3.50
Chlorpyrifos ethyl**	6.25 mg/L, 1.25 mg/L, 0.25 mg/L, 0.05 mg/L	-
Bromophos**	31.25 mg/L, 6.25 mg/L, 1.25 mg/L, 0.25 mg/L	-
Fenthion**	31.25 mg/L, 6.25 mg/L, 1.25 mg/L, 0.25 mg/L	-
Control (98% ethanol + 2% butanone)***		3.00

## \* Notes:

1. Four bottles (with 4 serial concentrations of each insecticide) are supplied along with a full test kit. Additional bottles of solutions can be ordered separately.

\*\* Bromophos, fenthion and chlorpyrifos-ethyl solutions are no longer supplied by Universiti Sains Malaysia.

\*\*\* Alcohol used for these solutions and for the control is denatured by adding 2% butanone.

5

**MOSQUITO LARVAL SUSCEPTIBILITY TEST KIT AND SOLUTIONS FOR TESTS WITH INSECT GROWTH/DEVELOPMENT INHIBITORS (IGR/JH MIMICS)**  
(WHO/VBC/81.812)

**5A. Equipment kit** (as detailed below)

**Price per kit US\$ 32.00**

- (1) glass pipette 1 ml, white marking;
- (1) glass pipette 1 ml, red marking;
- (1) glass pipette 1 ml, yellow marking;
- (3) rubber suction bulbs for above;
- (3) glass pipettes (eye dropper);
- (3) bulbs for eye dropper;
- (2) stainless steel wire loops;
- (1) nylon netting (30 x 30 cm);
- (1) polyethylene bottle, 50 ml;
- (1) instruction sheet (WHO/VBC/81.812);
- (10) report forms;
- (3) log-probit

**5B. Insecticide/control solutions** (in 50 ml bottles)\*

	<b>US\$ per bottle</b>
Diflubenzuron 20 mg/L, 4 mg/L, 0.8 mg/L, 0.16 mg/L, 0.032 mg/L	3.50
Control (98% ethanol + 2% butanone)*	3.00

\*Alcohol used for these solutions and for the control is denatured by adding 2% butanone.

6

**TEST KIT FOR CONE BIOASSAYS WITH MOSQUITOES SAND FLIES ON INSECTICIDE TREATED SURFACES AND NETS**

**Equipment kit** (as detailed below)

**Price per kit US\$ 56.00**

- (24) conical chambers (plastic cones);
- (4) mouth aspirator glass (bent end);
- (4) rubber tubings for aspirators (60 cm);
- (4) glass mouthpieces for rubber tubings;
- (2) sponge tapes (10 m; 10 mm x 3 mm);
- (40) upholstery tacks (large head);
- (2) vinyl tapes (1 red, 1 green);
- (1) instruction sheet (WHO/VBC/81.5)

7

**KITS FOR HOUSEFLIES, TSETSE FLIES, STABLE FLIES, BLOWFLIES ETC.**  
*(WHO/VBC/81.813)*

<b>7A. Equipment kit</b> (as detailed below)*	<b>Price per kit US\$ 68.00</b>
(60) paper cups; (60) nylon netting 15 cm <sup>2</sup> ; (60) rubber bands; (2) 2-ml plastic syringes; (2) 10-ml plastic syringes; (4) needles; (1) microcap pipette; (10) capillary tubes, 1 m litre; (1) tube for capillary tube; (1) roll of aluminium foil, 30 m x 30 cm; (1) instruction sheet WHO/VBC/81.813; (1) report form; (1) log probability paper.	
<b>7B. Insecticide in butanone</b> (in 50 ml glass bottle)	<b>US\$ per bottle</b>
DDT 4%	3.50
Malathion 8%	3.50
Permethrin 0.5%	3.50
Deltamethrin 0.05%	3.50
Control (butanone only)	3.00

**\*Supplemental accessories accompanying each insecticide purchase (including the kit and chosen insecticide)**

Four 10 ml vials with caps; one 50 ml glass bottle of butanone (MEK); 1 microcap pipette; 3 capillary tubes, 1 m litre; 1 glass tube with capillary tubes.

8

**KITS FOR REDUVID BUGS** *(WHO/VBC/75.587)*

<b>Equipment kit</b> (as detailed below)	<b>Price per kit US\$ 46.00</b>
(6) glass test tubes, 15-cm length, internal diameter 24-mm; (1) test tube rack, 160 x 100 x 90 mm; (1) black foam plastic mat for above, 160 x 100 x 4 mm; (15) nylon nettings, 7 cm <sup>2</sup> ; (25) rubber bands; (1) forceps, flexible; (1) forceps, normal; (1) holding container ½ kg, made of glass with cover; 1 roll transparent adhesive tape; (1) instruction sheet WHO/VBC/75.587; (1) report form; (1) log-probit paper; (40) sheets of plain white papers of 15 x 12 cm.	

9

**KITS FOR BED-BUGS (ADULTS) (WHO/VBC/81.809)****9A. Equipment kit (as described below)****Price per kit US\$ 66.00**

(24) glass test tubes, 17-cm diam x 16-mm int;  
 (1) test tube rack for 24 tubes 15 x 10 x 9 cm;  
 (1) black foam plastic mat, 10 x 15 x 0.4 cm;  
 (30) nylon nettings, 5 cm<sup>2</sup>;  
 (50) rubber bands;  
 (1) nylon brush;  
 (1) forceps, straight;  
 (2) fine paint brushes;  
 (1) holding container;  
 (4) pill boxes with net covering;  
 (1) roll transparent adhesive tape;  
 (40) sheets of plain white papers, 15 x 12 cm;  
 (1) instruction sheet WHO/VBC/ 81.809;  
 (1) report form;  
 (1) log-probit paper.

**9B. Insecticide impregnated papers\*\***

	US\$ per box		US\$ per box
DDT 4%	16.00	Control in olive oil (OP/C control)	22.00
Control in risella oil (Organochlorine control)	16.00	Permethrin 0.75%	22.00
Malathion 5%	22.00	Deltamethrin 0.05%	22.00
Fenitrothion 1%*	22.00	Control in silicone oil (PY control)	22.00

## Note(s):

<sup>a</sup> The concentration is currently being re-evaluated by WHO

\*Impregnated papers no longer supplied by Universiti Sains Malaysia

\*\*Papers with other concentrations are available on request (minimum 3 boxes should be ordered)

**10**
**KITS FOR BLACKFLIES (ADULTS), SAND FLIES and BITING MIDGES**  
*(WHO/VBC/81.810)*
**10A. Equipment** (as described below)

**Price per kit US\$ 116.00**

- (8) plastic tubes with a red dot;
- (12) plastic tubes with a green dot;
- (10) slide units;
- (42) metal clips (stainless steel made; silver colour);
- (20) discs, fine mesh nylon netting, diameter 52 mm;
- (40) sheets of plain white papers, 15 x 12 cm;
- (24) clips (copper);
- (2) mouth aspirator glass (straight);
- (2) rubber tubings for aspirators (60 cm);
- (2) mouthpieces for rubber tubings;
- (1) roll of transparent adhesive tape;
- (1) instruction sheet WHO/VBC/81.810;
- (20) report forms;
- (3) log-probit papers.

**10B. Insecticide impregnated papers**

	US\$ per box		US\$ per box
DDT 0.25%	16.00	DDT 2%	16.00
DDT 0.5%	16.00	DDT 4%	16.00
DDT 1%	16.00	Control in risella oil (OC control)	16.00

11

**KITS FOR BLACKFLY LARVAE (WHO/VBC/81.811)****11A. Equipment kit** (as described below)**Price per kit US\$ 32.00**

- (1) glass pipette 1 ml, white marking;
- (1) glass pipette 1 ml, red marking;
- (1) glass pipette 1-ml, yellow marking;
- (1) glass pipette 1-ml, black marking;
- (1) glass pipette 1-ml, without marking;
- (5) rubber suction bulbs for pipettes;
- (3) pipettes (eye dropper);
- (3) bulbs for eye dropper;
- (1) instruction sheet WHO/VBC/81.811;
- (1) report form;
- (1) log-probit paper;
- (1) corrigendum sheet for document WHO/VBC/81.811.

**11B. Insecticide solutions** (in 50 ml bottle)**US\$ per bottle**

DDT	625 mg/l, 125 mg/L, 25 mg/L, 5 mg/L, 1 mg/L	3.50
Pirimiphos-methyl	312.5 mg/L, 62.5 mg/L, 12.5 mg/L, 2.5 mg/L	3.50
Temephos	312.5 mg/L, 62.5 mg/L, 12.5 mg/L, 2.5 mg/L	3.50
Control (alcohol only)*		3.00

Notes:

\*Alcohol used for these solutions and for the control has been denatured by adding 2% butanone.

12

**KITS FOR COCKROACHES (WHO/VBC/75.593)****12A. Equipment** (as described below)**Price per kit US\$ 35.00**

- (4) bottles, glass 50-ml;
- (4) measuring cylinders, 10-ml;
- (4) graduated pipettes, 5-ml;
- (6) glass jars, 500-ml, with cover;
- (1) tin of petrolatum grease;
- (1) bottle of petrolatum oil;
- (1) instruction sheet WHO/VBC/75.593;
- (1) report form;
- (1) log-probit paper.

**12B. Insecticide solutions** (in 50 ml glass bottle)**US\$ per bottle**

Malathion 1.0%	3.50
Control (acetone only)	3.00

13			
<b>KITS FOR BODY AND HEAD LICE (WHO/VBC/81.808)</b>			
<b>13A. Equipment kit</b> (as described below)		<b>Price per kit US\$ 5.00</b>	
Instruction sheet, log probability paper, report form.			
<b>13B. Insecticide impregnated papers*</b>			
	US\$ per box		US\$ per box
DDT 4%	16.00	Permethrin 0.75%	22.00
Control in risella oil (OC control)	16.00	Deltamethrin 0.05%	22.00
Malathion 5%	22.00	Control in olive oil (PY control)	22.00
Control in olive oil (OP/C control)	22.00		
Notes:			
*Papers with other concentrations are available on request (minimum 3 boxes should be ordered)			

14			
<b>TEST KITS FOR FLEAS (WHO/VBC1/81.815)</b>			
<b>14A. Equipment kit</b> (as described below)		<b>Price per kit US\$ 104.00</b>	
<p>(20) white clean sheet of plain papers (12 x 15 cm);            (26) glass test tubes, 17 cm (diam inter 16 mm);            (1) test tube rack for 24 tubes, 15 x 10 x 9 cm;            (1) black foam plastic mats, 15 x 10 x 0.4 cm;            (30) nylon nettings, 5 cm<sup>2</sup>;            (50) rubber bands;            (1) tweezers, flat tip;            (2) nylon brushes;            (1) holding container for fleas, of clear plastic with cover;            (1) pair of tongs;            (2) rubber suction bulbs (big);            (4) flexible tubings, 35-cm, diameter 4-mm, int 7-mm, ext;            (2) nozzles (glass), diam int 4-mm, 15-cm;            (2) aspirators unit;            (2) pair of rubber (latex) gloves, size 8½, 9½;            (2) roll of transparent adhesive tapes, 10 m x 19 mm;            (1) instruction sheet WHO/VBC/81.815 + schema;            (20) report forms;            (3) log-probit papers.</p>			
<b>14B. Insecticide impregnated papers*</b>			
	US\$ per box		US\$ per box
DDT 1%	16.00	Malathion 5%	22.00
Control in risella oil (OC control)	16.00	Control in olive oil (OP/C control)	22.00
Notes:			
*Papers with other concentrations are available on request (minimum 3 boxes should be ordered)			
On special request, with delivery time of at least two months; papers impregnated with insecticides listed below can be supplied for research purposes. However, for such request, there must be a minimum order of 3 boxes per concentration.			

15

**TEST KITS FOR ADULT TICKS** (*WHO/VBC/81.814*)**15A. Equipment kit** (as described below)**Price per kit US\$ 151.00**

- (2) syringes, 2ml, 1/10 grad, with needle;
- (2) syringes, 10 ml with needle;
- (2) forceps, straight;
- (25) rubber bands;
- (25) holding containers (paper cup);
- (25) nylon nettings, 15 cm<sup>2</sup>;
- (5) small vials with caps, 10 ml;
- (1) self-filling capillary applicator
- (1) instruction sheet WHO/VBC/81.814;
- (20) report forms;
- (3) log probability papers.

**15B. Insecticide solutions** (in 50 ml glass bottle)

	<b>US\$ per bottle</b>
DDT 10%	3.50
Malathion 10%	3.50
Control (butanone only)	3.00

16

**TEST KITS FOR RODENTS** (*WHO/VBC/82.843*)**Equipment kit** (as described below)**Price per kit US\$ 59.00**

- (1) sieve (ASTM opening 1.70 mm);
- (20) basic data sheets, report form no 1;
- (5) summary sheets, report form no.2;
- (1) instruction sheet WHO/VBC/82.82.843.

17

**TEST KITS FOR PERSISTENT FUMIGANTS\* (WHO/VBC/75.594)****Equipment kit** (as described below)**Price per kit US\$ 87.00**

- (1) roll of aluminium foil, 30 x 30 cm;
- (10) nylon net cages 3 cm x 15 cm;
- (1) reel of cotton thread;
- (1) sewing needle;
- (10) staples; 1 roll of transparent adhesive tape;
- (1) forceps, straight;
- (1) package of 100 filters paper;
- (1) bottle 50-ml dichlorvos solution (16% m/v) in dioctyl phthalate (DOP);
- (2) 50-ml methyl ethyl ketone (MEK);
- (2) 50-ml MEK/DOP mixture 39:1;
- (2) 1-ml graduated pipette (0.01 ml graduation);
- (2) rubber bulbs for above;
- (4) 5-ml pipettes, graduated;
- (2) 50-ml bottles with screw caps;
- (6) 10-ml vials with screw caps;
- (3) 10-cubic cm micropipettes;
- (3) rubber tubings with mouthpieces for micro-pipettes;
- (2) rubber tubings for aspirators;
- (2) mouthpieces for rubber tubings;
- (2) mouth aspirator glass (straight);
- (1) instruction sheet WHO/VBC/75. 594;
- (1) report form;
- (1) log-probit paper.

Notes:

\* Fumigant dichlorvos or dioctyl phthalate (DOP) are not available