

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 Request Form available at <https://www.who.int/teams/control-of-neglected-tropical-diseases/interventions/strategies/vector-control/insecticide-resistance>
2. For bioassays with mosquitoes, orders may be placed either for full test kits or selected impregnated papers only. For mosquito larval susceptibility tests, sets of insecticide solutions can be ordered. For other species, only full kits are available.
3. 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).
4. The prices shown in the list below do not include the cost of shipment.
5. All orders include the price in US Dollars. The invoice will be prepared according to current currency exchange rate for the month of the actual dispatch of ordered items.
6. The kits and impregnated papers are manufactured by the following institution according to a Memorandum of Understanding between World Health Organization and the Universiti Sains Malaysia signed in August 2021.

Vector Control Research Unit (VCRU)

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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
2	Insecticide impregnated papers for adult mosquitoes*, **	4
3	Other individual item (available for purchase separately)	8
4	Mosquito larval susceptibility test kits and solutions (WHO reference document no. WHO/VBC/81.807)	9
5	Mosquito larval susceptibility test kits and solutions for tests with development inhibitors (IGR/JH mimics) (WHO reference document no. WHO/VBC/81.812)	10
6	Test kit for cone bioassay on wall surfaces with mosquitoes (equipment only) (WHO reference document no. WHO/VBC/81.5)	10
7	Test kits for houseflies, tsetse flies, stable flies, blowflies etc. (WHO reference document no. WHO/VBC/81.813)	11
8	Test kits for reduviid bugs (WHO reference document no.: WHO/VBC/75.587)	11
9	Test kits for bed bugs (adults) (WHO reference document no.: WHO/VBC/81.809)	12

No.	Test kits/items	Catalogue page no.
10	Test kits for blackflies (adults), sandflies and biting midges (WHO reference document no. WHO/VBC/81.810)	13
11	Test kits for blackfly larvae (WHO reference document no. WHO/VBC/81.811)	14
12	Test kits for cockroaches (WHO reference document no. WHO/VBC/75.593)	14
13	Test kits for body and head lice (WHO reference document no. WHO/VBC/81.808)	15
14	Test kits for fleas (WHO reference document no. WHO/VBC/81.815)	15
15	Test kits for ticks (Adults) (WHO reference document no.: WHO/VBC/81.814)	16
16	Test kits for rodents (WHO reference document no. WHO/VBC/82.843)	16
17	Test kits for persistent fumigants (WHO reference document no. WHO/VBC/75.594)	17
<p>Notes:</p> <p>*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.</p> <p>** Include 5X and 10X concentrations of pyrethroids for resistance intensity bioassays</p>		

1

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) sheet of plain white paper of 15 cm x 12 cm size for lining the holding tubes
- (6) metal clips (silver colour); (6) metal clips (copper)
- (2) glass tube aspirators (straight)
- (2) plastic tube aspirators (straight)
- (2) rubber tubings, (60 cm length each)
- (2) glass mouthpieces
- (1) roll of scotch 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](#)

2

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. 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>	0.15%	22.00
	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>	0.05%	22.00
	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>	0.50%	22.00
	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>	0.05%	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. 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%	22.00
Carbamate	Bendiocarb	NA	0.10%	22.00
	Carbosulfan**	NA	0.40%	-
	Propoxur**	NA	0.10%	-
Organochlorine	DDT	NA	4.00%	16.00
	Dieldrin**	NA	4.00% / 0.4%	-
Organophosphate	Fenitrothion**	NA	1.00%	-
	Malathion	NA	5.00%	22.00
	Pirimiphos- methyl	<i>An. albimanus</i> , <i>An. stephensi</i> , <i>An. minimus</i> , <i>An. funestus</i> s.s.	100 mg/m ²	22.00
		<i>An. gambiae</i> s.s.	170 mg/m ²	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.

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

NA: information on individual species is not available.

2B. *Anopheles* species: 5X and 10X discriminating concentrations of pyrethroids

Insecticide	Species for which DCs are validated	5X DC	US\$ per box (with 8 papers)	10X DC	US\$ per box (with 8 papers)
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%	30.00
	<i>An. sacharovi</i>	0.50%	30.00	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

2C. *Aedes* species (discriminating concentrations)

Insecticide class	Insecticide	Species for which DCs are validated	Discriminating concentration	US\$ per box (with 8 papers)
Pyrethroid	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
Carbamate	Bendiocarb	<i>Ae. aegypti</i> and <i>Ae. albopictus</i>	0.20%	22.00
	Propoxur*	<i>Aedes spp.</i>	0.10%	22.00
Organophosphate	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 ²	22.00
	Malathion	<i>Ae. aegypti</i>	1.5%	22.00
		<i>Ae. albopictus</i>	5.0%	22.00

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

2D. *Culex quinquefasciatus* (discriminating concentrations)

Insecticide class	Insecticide	Species for which DCs are validated	Discriminating concentration	US\$ per box (with 8 papers)
Pyrethroids	DDT	<i>Culex quinquefasciatus</i>	0.04%	16.00
	Deltamethrin*	<i>Culex quinquefasciatus</i>	0.03%	22.00
	Lambda-cyhalothrin	<i>Culex quinquefasciatus</i>	0.03%	22.00
	Permethrin (40:60 cis:trans isomer ratio)	<i>Culex quinquefasciatus</i>	0.25%	22.00
Carbamate	Propoxur	<i>Culex quinquefasciatus</i>	0.10%	22.00
Organophosphate	Fenitrothion	<i>Culex quinquefasciatus</i>	1%	22.00
	Malathion*	<i>Culex quinquefasciatus</i>	5%	22.00

*These concentrations are currently being re-evaluated by WHO.

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

2E. Sand fly species (discriminating concentrations)				
Insecticide class	Insecticide	Species for which DCs are validated	Discriminating concentration	US\$ per box (with 8 papers)
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
Carbamate	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
Organophosphate	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 ²	22.00
		<i>Ph. argentipes</i>	100 mg/m ²	22.00
		<i>Ph. dubosqui</i>	50 mg/m ²	22.00
		<i>Ph. longipes</i>	100 mg/m ²	22.00
		<i>Lu. longipalpis</i>	100 mg/m ²	22.00

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

3	
OTHER INDIVIDUAL ITEM*	
Item(s)	Price per unit (US\$)
Mouth aspirator plastic (straight) **	6.00
Mouth aspirator plastic (bent) ***	6.00
Mouth aspirator glass (straight) **	8.00
Mouth aspirator glass (bent) ***	8.00
Bioassay cones (plastic conical chamber)	1.00
Plastic tubes for tube tests with adult mosquitoes/sand flies – 1 tube with a RED dot (exposure tube), 1 tube with a GREEN dot (holding tube) and 1 slide unit	10.00
Plastic tubes for tube tests with adult mosquitoes/sand flies – 1 tube with a YELLOW dot (exposure tube for control papers), 1 tube with a GREEN dot (holding tubes) and 1 slide unit	10.00
Copper made clips for exposure tubes	1.00
Metal clip of 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 Request Form . ** Aspirator (straight): 1 straight glass/plastic tube, 1 rubber tubing, 1 mouthpiece for WHO test tubes. *** Aspirator (bent): 1 bent glass/plastic tube, 1 rubber tubing, 1 mouthpiece for cone test & bottle bioassay.	

4

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) wire loops;
- (1) nylon netting (30 cm²);
- (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)*

		US\$ per bottle
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	3.50
Control (99.8% ethanol)**		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.

2. Bromophos and fenthion 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 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) wire loops;
- (1) nylon netting (30 x 30 cm);
- (1) rubber cement;
- (1) instruction sheet (WHO/VBC/81.812);
- (10) report forms;
- (3) log-probit

5B. Insecticide/control solutions (in 50 ml bottles)***US\$ per bottle**

Diflubenzuron 20 mg/L, 4 mg/L, 0.8 mg/L, 0.16 mg/L, 0.032 mg/L

3.50

Control (99.8% ethanol)*

3.00

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

6
TEST KIT FOR CONE BIOASSAYS WITH MOSQUITOES ON INSECTICIDE TREATED SURFACES AND NETS
Equipment kit (as detailed below)**Price per kit US\$ 56.00**

- (24) conical chambers (plastic cones);
- (4) glass aspirator tubes (bent);
- (4) rubber tubings (60 cm);
- (4) mouth pieces for rubber tubings;
- (2) sponge tapes (10 m; 10 mm x 3 mm);
- (40) upholstery tacks (large head);
- (2) adhesive 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)
7A. Equipment kit (as detailed below)

Price per kit US\$ 68.00

(60) paper cups;
 (60) nylon netting 15 cm²;
 (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.

7B. Insecticide in butanone (in 50 ml glass bottle)

US\$ per bottle

DDT 4%, Malathion 8%, Permethrin 0.5%, Deltamethrin 0.05%

3.50

Control (butanone only)

3.00

***Supplementary equipment for each insecticide purchased**

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 REDUVIID BUGS *(WHO/VBC/75.587)*
Equipment kit (as detailed below)

Price per kit US\$ 46.00

(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 cm²;
 (25) rubber bands;
 (1) forceps, flexible;
 (1) forceps, normal;
 (1) holding container ½ kg, made of glass with cover; 1 roll scotch 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 cm²;
 (50) rubber bands;
 (1) nylon brush;
 (1) forceps, straight;
 (2) fine paint brushes;
 (1) holding container;
 (4) pill boxes with net covering;
 (1) roll scotch 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):

^a 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), SANDBLIES 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;
(20) discs, fine mesh nylon netting, diameter 52 mm;
(40) sheets of plain white papers, 15 x 12 cm; 42 clips (silver);
(24) clips (copper);
(2) glass aspirators, straight;
(2) plastic tubings, 60 cm;
(2) glass mouthpieces;
(1) roll of scotch 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

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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			
KITS FOR BODY AND HEAD LICE (WHO/VBC/81.808)			
13A. Equipment kit (as described below)			Price per kit US\$ 5.00
Instruction sheet, log probability paper, report form.			
13B. Insecticide impregnated papers*			
	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

TEST KITS FOR FLEAS (WHO/VBC1/81.815)

14A. Equipment kit (as described below)

Price per kit US\$ 104.00

(20) white clean sheet of 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 cm²;

(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 scotch adhesive tapes, 10 m x 19 mm;

(1) instruction sheet WHO/VBC/81.815 + schema;

(20) report forms;

(3) log-probit papers.

14B. Insecticide impregnated papers*

	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 cm²;
- (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)

	US\$ per bottle
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 scotch 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) plastic tubings;
- (2) mouth pieces;
- (2) aspirator tubes, 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