

Annual CIPAC/FAO/WHO Report Form on the Quality Control of Pesticides 2008

Country/Name and Address of the Institution (contact person):

GREECE

BENAKI PHYTOPATHOLOGICAL INSTITUTE

LABORATORY OF CHEMICAL CONTROL OF PESTICIDES

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1 - Essential Information

Reporting period/year:	Number of samples analyzed (1)	Number of non-compliance (2)	Uses (3) (optional)
5/2008-5/2009	238	20	Agricultural use: 231
			Public Health use: 6
			Home and Garden use: 1
			Other uses (please specify):

(1) Any sample, including those of active inspection and registration control samples.

(2) Non-compliance with FAO/WHO or national pesticide specifications.

The reason of non-compliance: Active ingredient content and physical properties (emulsion characteristics, acidity)

(3) If possible, please indicate the use/destination of the pesticide analyzed. If the pesticide has various uses, it should be included only in one category and should be explained under item 2 (comments).

2 - Any comments and/or background information

Table 1: Active ingredients analyzed from 5/2008 to 5/2009

Type of pesticide	Active ingredient	Number of samples analysed	Number of non-compliance
Insecticides	fenthion	21	None
	Dimethoate	39	20
	a-cypermethrin	7	None
	l-cyhalothrin	38	None
	methidathion	1	None
	endosulfan	1	None
	thiodicarb	3	None
	spinosad	3	None
	Pirimiphos methyl	1	None
	bifenthrin	2	None
	chlorpyrifos ethyl	1	None
	Fatty acid potassium salt	1	None
	methamidophos	1	None
	abamectin	3	None
	Cyromazine	1	None
	imidachloprid	5	None
	Paraffinic oil	1	None
	Total insecticides analyzed	129	
Herbicides	Dicamba	9	None
	Chlorthal dimethyl	9	None
	Quizalofop-ethyl	22	None
	paraquat	2	None
	Diclofop-methyl	2	None
	chlorsulfuron	1	None
	nicosulfuron	1	None
	Fenoxaprop-ethyl	1	None
	Glyphosate	1	None
	cycloxdim	11	None
	fluometuron	3	None
	Total herbicides analyzed	62	
Fungicides	difenoconazole	1	None
	Propomocarb hydrochloride	1	None
	cymoxanil	1	None
	maneb	1	None
	sulfur	2	None
	procymidone	1	None
	triadimenol	2	None
	bitertanol	2	None
	oxyfluorfen	2	None
	chlorthalonil	1	None
	tebuconazole	2	None
	myclobutanil	1	None

	Total fungicides analyzed	17	
Plant growth regulators	Maleic hydrazide	5	None
	Indole-3-butyric acid	3	None
	Mepiquat chloride	1	None
	Total samples analyzed	9	None
			None
Nematicides	fenamiphos	15	None
	Total samples analyzed	15	
Others	Chlorpyrifos	1	None
	Cyphenothrin+d-tetramethrin	1	None
	Fenbutatin oxide	1	None
	Permethrin	1	None
	diflubenzuron	1	None
	bromodiolone	1	None
	Total samples analyzed	6	

The Laboratory of Quality Control of Pesticides, of Benaki Phytopathological Institute is the only official laboratory in Greece, designated for the quality control of plant protection products. Analysis of environmental samples (soil and sediment) for the determination of pesticide residues is also one of its responsibilities.

The laboratory is accredited in accordance to ELOT EN ISO/IEC 17025:2005, by the Hellenic Accreditation System SA in:

1. Determination of the active ingredient content of plant protection products by HPLC-UV technique (according to the CIPAC methods of the current issue).
2. Determination of the active ingredient content of plant protection products by GC-FID technique (according to the CIPAC methods of the current issue).
3. Determination of the emulsion characteristics and the re-emulsion ability (according to CIPAC).

The laboratory also participates in the following projects:

1. 'Strategic plan for the adaptation and application of the principles for the sustainable use of pesticides in a vulnerable ecosystem' (LIFE07 ENV/GR/0000266).
2. Development of Benaki Phytopathological Institute as a Centre of Excellence in Plant Health and Crop Protection (Project acronym: BPI Plant-Heal, Grant agreement no.: 230010).
3. Hellenic Aid with Palestine.
4. Analysis of pesticide residues in empty pesticide containers (collaboration with Syngenta).
5. Determination of hevalent chromium in water, waste water and plants.

3. CIPAC Activities

- 1.** Participation to Proficiency testing for physicochemical properties on pesticide formulation [active ingredient content-azulam, density (according to CIPAC MT 3.2.1), pH formulation, pH 1% dilution (according to CIPAC MT 75), foaming properties (according to CIPAC MT 47.2)], organised by the Departement Laboratories of the Federal Agency for the Safety of the Food Chain (Belgium)
- 2.** Partitipation to Intercomparison Exercise: SD-MEDPOL-2/ORG, for the determination of chlorinated compounds in sediment sample, organised by the IAEA-MEL marine Environment Laboratories