

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

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) |
|------------------------|--------------------------------|------------------------------|------------------------------|
| May 2010- May 2011 | 708 | 40 | Agricultural use: 708 |
| | | | Public Health use: |
| | | | Home and Garden use: |
| | | | 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:

40 samples active ingredient content outside FAO specifications

(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

All samples were analyzed as part of the routine monitoring programme.

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 230010 (Regpot, FP7).
3. 'Establishment of an Impact Assessment Procedure as a tool for the sustainability of agro-ecosystem: The case of Mediterranean olives' (SAGE 10- Life 09+Env.).
4. 'Development of nanoemulsions as new plant protection products to reduce environmental impacts' (National Hellenic Research Foundation).

The laboratory has contracts with Universities and the private sector:

1. Analysis of pesticide residues in empty pesticide containers after triple rinsing (collaboration with Syngenta Hellas).
2. Analysis of pesticide residues in empty pesticide containers after triple rinsing with LC-MS/MS. (collaboration with Agricultural University of Athens).
3. 'Determination of floating dust of treated seeds –Heubach test.

3. CIPAC Activities

The laboratory of Quality Control of Pesticides participated in three CIPAC collaborative trials year:

1. Flumioxazin organized by Sumitomo Co., Ltd.
2. Pirimiphos methyl organized by Syngenta
3. Piperonyl Butoxide organized by Endura SpA

It was also participated in one collaborative trial organized by Federal Agency for the Food Safety –AFSCA (Gembloux-Belgium) for the determination of active ingredient content and physical properties.