

## Proficiency Test (PT) No. 17a “Pesticides in Low Fat Matrices (2018)“

**Matrix: Vegetable (Tomato)**

Durchführung von  
Laborvergleichs-  
untersuchungen GbR

Ute und Ralf Lippold

Am Weingarten 13  
D-79336 Herbolzheim

Telefon 0 76 43 403 35

Telefax 0 76 43 403 19

eMail info@LVUs.de

internet www.LVUs.de

May 2018

### Information about the Proficiency Test

During the last weeks all planning for the proficiency testing scheme No. 17a “pesticides” have been proceeded.

Samples (matrix vegetable: Tomato) were produced and analysed for homogeneity with GC-MS and LC-MS methods.

The distribution of the samples will start in June 2018.

With date from 23.04.2018 the following 181 pesticides can be analysed:

|                     |                  |                                |                    |                   |
|---------------------|------------------|--------------------------------|--------------------|-------------------|
| Abamectin           | Clothianidin     | Fenvalerat (Summe der Isomere) | Paclobutrazol      | Simazin           |
| Acephat             | Cyfluthrin       | Ethiofencarb                   | Parathion-ethyl    | Spinosad          |
| Acetamiprid         | Cymoxanil        | Ethion                         | Parathion-methyl   | Spiromesifen      |
| Acrinathrin         | Cypermethrin     | Ethoprophos                    | Penconazol         | Spiroxamin        |
| Azinphos-methyl     | Cyproconazol     | Etoxazol                       | Pendimethalin      | Sulfotep          |
| Azoxystrobin        | Cyprodinil       | Etoxiquina                     | Pentachloranilin   | Tau-Fluvalinat    |
| Benalaxyl           | DDD-op           | Etridiazol                     | Permethrin         | Tebuconazol       |
| Benomyl             | DDD-pp           | Famoxadon                      | Isofenphos-methyl  | Tebufenozid       |
| Bifenthrin          | DDE-op           | Fenamidon                      | Kresoxim-methyl    | Tebufenpyrad      |
| Bitertanol          | DDE-pp           | Fenamiphos                     | Lambda-Cyhalothrin | Teflubenzuron     |
| Boscalid            | DDT-op           | Fenarimol                      | Lufenuron          | Tepraloxydim      |
| Brompropylat        | DDT-pp           | Fenhexamid                     | Malathion          | Terbutylazin      |
| Bupirimat           | Deltamethrin     | Fenitrothion                   | Mepanipyrim        | Tetraconazol      |
| Buprofezin          | Diafenthiuron    | Fenpropathrin                  | Meptyldinocap      | Tetradifon        |
| Captafol            | Diazinon         | Fenpropimorph                  | Metaflumizon       | TFNA              |
| Captan              | Dichlofluanid    | Fenthion                       | Metalaxyl          | TFNG              |
| Carbaryl            | Dichlorvos       | Fipronil                       | Metazachlor        | Thiacloprid       |
| Carbendazim         | Diclobutrazol    | Flonicamid                     | Methamidophos      | Thiamethoxam      |
| Carbofuran          | Dicofol          | Fluazifop-p-butyl              | Methidathion       | Thiophanat-methyl |
| Carbophenothion     | Dieldrin         | Fluazinam                      | Methiocarb         | Tolclofos-methyl  |
| Carbosulfan         | Diethofencarb    | Flubendiamid                   | Methomyl           | Tolyfluanid       |
| Chlorantraniliprol  | Difenoconazol    | Fludioxonil                    | Methoxyfenozid     | Triadimefon       |
| Chlorfenapyr        | Diflubenzuron    | Flufenoxuron                   | Metrafenon         | Triadimenol       |
| Chlorfenvinphos     | Dimethomorph     | Fluopyram                      | Metribuzin         | Triazophos        |
| Chlorpropham        | Dinocap          | Flurochloridon                 | Mevinphos          | Pyraclostrobin    |
| Chlorpyrifos        | Diphenylamin     | Flusilazol                     | Milbemectin        | Pyrazophos        |
| Chlorpyrifos-methyl | Dodine           | Flutriafol                     | Myclobutanil       | Trifluralin       |
| Chlorthal-dimethyl  | Endosulfan-alfa  | Folpet                         | Naled              | Trifluralin       |
| Chlorthalonil       | Endosulfan-beta  | Forchlorfenuron                | Nuarimol           | Vinclozolin       |
| Chlortoluron        | Endosulfansulfat | HCH-gamma (Lindan)             | Oxadixyl           |                   |
| Chlozolinat         | Endrin           | Heptenophos                    | Oxamyl             |                   |
| Clofentezin         | Epoconazol       | Hexaconazol                    | Oxyfluorfen        |                   |
|                     |                  |                                | Quinoxifen         |                   |
|                     |                  |                                | Quintozen          |                   |
|                     |                  |                                | Rotenon            |                   |

The sample contains between 4 and 12 pesticides which shall be quantified. Each participating laboratory will get two samples (same batch) containing about 100 g of the test item. For analysing these samples you shall use the GC- and/or LC-methods normally used within the laboratory.

---

**It is not a duty to analyse all of the listed pesticides. In cases pesticides were not analysed it is possible to marked these pesticides in the result list. All marked pesticides will be excluded from the final calculations for the laboratory.**

The evaluation of the individual results will be done using z-scores according to the revised Horwitz concept. In lower concentration ranges the fit for purpose standard deviation calculated using the Horwitz function will increase dramatically. To avoid to high values the „fit for purpose standard deviation“ the value will be limited to a maximum of 22 % of the consensus value (median). Not identified pesticides („false negative results“ - LOD < 66% of the consensus value) will get a fixed z-score of -5.0. “False positive results” (cut off value 0.01 mg/kg) will be listed within the report without z-scores.

---

Within the report you will find the individual data for the spiked pesticides, only. It is not possible to list all individual results for all of the 181 pesticides.

Questions for the chromatographic systems will be reduced to detection system, calibration (standard solution or matrix matched) and number of calibration points.

**The fees for participating are 280,00 Euro** plus VAT (no VAT for labs outside the European Union and reverse charge of VAT for labs within the European Union but Germany). There will be an additional fee for shipping with express services according our price list 2018 (Germany 30 Euro; European Union 80 Euro and Switzerland 85 Euro).