



Qualitätssicherung. Vom Landwirt bis zur Ladentheke.



Annex 10.3 Registration form for laboratories

To apply for QS approval in the scope of Residue Monitoring fruit, vegetables and potatoes

A. General data	
Laboratory: Address: Postcode/City: Country: Phone: Fax: E-Mail: VAT-ID: (only specified if the company head office is not in Germany)	
B. Responsibilities	
Contact person: Name: _____ E-Mail: _____ Representative: Name: _____ E-Mail: _____	
C. Accreditation in accordance with EN ISO/IEC 17025¹	
<input type="checkbox"/> implemented	<input type="checkbox"/> under development

¹ Please tick as appropriate.



D. Accreditation in accordance with EN ISO/IEC 17025 for at least the following test methods ²			
Multi-method³ (e.g. DFG S 19; contained in EN 12393-1, -2 and -3/QuECHERS) with LC-MS/MS and GC-MS(/MS) (a subcontract is not possible)			
<input type="checkbox"/>	implemented	<input type="checkbox"/>	under development
Modified multi-method (in line with EU reference laboratory, Single Residue Methods, Analytical observation report) (e.g. for dithianon, fenbutatin oxide, phenoxy alkane carboxylic acids (free acids, esters), QACs, matrine)			
<input type="checkbox"/>	implemented	<input type="checkbox"/>	under development
<input type="checkbox"/>		<input type="checkbox"/>	single/special method
Single/special methods (a subcontract is not possible)			
Dithianon ⁴	<input type="checkbox"/>	implemented	<input type="checkbox"/>
Fenbutatin oxide ⁴	<input type="checkbox"/>	implemented	<input type="checkbox"/>
Dithiocarbamates ⁵	<input type="checkbox"/>	implemented	<input type="checkbox"/>
Single/special method for active substances with complex residue analysis (incl. metabolites)			
Amitraz ^{3,6}	<input type="checkbox"/>	implemented	<input type="checkbox"/>
	<input type="checkbox"/>	under development	<input type="checkbox"/>
	<input type="checkbox"/>	subcontracted	
2,4-D ³	<input type="checkbox"/>	implemented	<input type="checkbox"/>
	<input type="checkbox"/>	under development	<input type="checkbox"/>
	<input type="checkbox"/>	subcontracted	
Dichlorprop/Dichlorprop-P ³	<input type="checkbox"/>	implemented	<input type="checkbox"/>
	<input type="checkbox"/>	under development	<input type="checkbox"/>
	<input type="checkbox"/>	subcontracted	
Haloxifop ³	<input type="checkbox"/>	implemented	<input type="checkbox"/>
	<input type="checkbox"/>	under development	<input type="checkbox"/>
	<input type="checkbox"/>	subcontracted	
Fluazifop/Fluazifop-P ³	<input type="checkbox"/>	implemented	<input type="checkbox"/>
	<input type="checkbox"/>	under development	<input type="checkbox"/>
	<input type="checkbox"/>	subcontracted	
MCPA ³	<input type="checkbox"/>	implemented	<input type="checkbox"/>
	<input type="checkbox"/>	under development	<input type="checkbox"/>
	<input type="checkbox"/>	subcontracted	
2,4-MCPB ³	<input type="checkbox"/>	implemented	<input type="checkbox"/>
	<input type="checkbox"/>	under development	<input type="checkbox"/>
	<input type="checkbox"/>	subcontracted	
Quizalofop ³	<input type="checkbox"/>	implemented	<input type="checkbox"/>
	<input type="checkbox"/>	under development	<input type="checkbox"/>
	<input type="checkbox"/>	subcontracted	

² Please tick as appropriate.

³ The parent substance has to be detected via the multi-method. In the process, the traces below the limit of quantification of 0,01 mg/kg have to be considered. If there is a finding, a single method must be used for more precise determination of the metabolites in order to satisfy the requirements of regulation 396/2005. The finding of the single method has to be named in the report.

⁴ Acquisition with a multi-method is possible.

⁵ e.g. DFG S 15; EN 12396-1 or -2 or -3

⁶ The relevant metabolites for the residue definition can be detected via multi-method. In that case, a subcontract is not possible.



Single/special methods for highly polar active substances						
Chlorate/Perchlorate	<input type="checkbox"/>	implemented	<input type="checkbox"/>	under development	<input type="checkbox"/>	subcontracted
Chlormequat/Mepiquat	<input type="checkbox"/>	implemented	<input type="checkbox"/>	under development	<input type="checkbox"/>	subcontracted
Diquat/Paraquat	<input type="checkbox"/>	implemented	<input type="checkbox"/>	under development	<input type="checkbox"/>	subcontracted
Ethephon	<input type="checkbox"/>	implemented	<input type="checkbox"/>	under development	<input type="checkbox"/>	subcontracted
Glyphosate	<input type="checkbox"/>	implemented	<input type="checkbox"/>	under development	<input type="checkbox"/>	subcontracted
Maleic acid hydrazide	<input type="checkbox"/>	implemented	<input type="checkbox"/>	under development	<input type="checkbox"/>	subcontracted
Amino alcohols ⁷	<input type="checkbox"/>	implemented	<input type="checkbox"/>	under development	<input type="checkbox"/>	subcontracted
Phosphonate/Fosetyl	<input type="checkbox"/>	implemented	<input type="checkbox"/>	under development	<input type="checkbox"/>	subcontracted
Other Single/special methods						
Total bromide ⁸	<input type="checkbox"/>	implemented	<input type="checkbox"/>	under development	<input type="checkbox"/>	subcontracted
Matrine	<input type="checkbox"/>	implemented	<input type="checkbox"/>	under development	<input type="checkbox"/>	subcontracted
Nitrate ⁹	<input type="checkbox"/>	implemented	<input type="checkbox"/>	under development	<input type="checkbox"/>	subcontracted
Heavy metals	<input type="checkbox"/>	implemented	<input type="checkbox"/>	under development	<input type="checkbox"/>	subcontracted
Sulphite	<input type="checkbox"/>	implemented	<input type="checkbox"/>	under development	<input type="checkbox"/>	subcontracted
Quaternary ammonium-compounds	<input type="checkbox"/>	implemented	<input type="checkbox"/>	under development	<input type="checkbox"/>	subcontracted

E. Subcontracts	
<input type="checkbox"/>	subcontract/s enclosed

F. Spectrum of analysis (List of the active substances and quantification limits which can be tested by the laboratory, subdivided by the used detection modules (e.g. GC-MS(/MS), GC-FPD, GC-ECD; LC-MS/MS))	
<input type="checkbox"/>	complete list enclosed

G. Copy of an exemplary test report	
<input type="checkbox"/>	enclosed

⁷ Morpholine/Diethanolamine/Triethanolamine

⁸ e.g. DFG S 18 or Propylenoxid-Methode; both are described in EN 13191-2

⁹ Method EN 12014-2



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H. Participation in ring tests in the matrix Fruit/Vegetables/Potatoes within the last year prior to application (for all applied methods)

- Results (report and laboratory code) enclosed
- participated, results are still outstanding

Parameters: _____

I. Declaration of commitment

We commit ourselves to enter the laboratory results into the QS database in accordance with the chronological requirements of the guideline residue monitoring.

Signature/stamp: _____

J. Correctness of reported information

Hereby we confirm the correctness of the reported information. Any changes will be reported to QS unrequested.

Date: _____ Signature/stamp: _____

With receipt of the application documentation and prior to the beginning of the document check, a one-off handling fee of **1.500 €** must be paid (plus VAT at the legally valid rate). On receipt of the approval, the handling fee will be credited against first year's annual fee for approval.

Explanations: Documents to be submitted

In addition to the completed data sheet for the document check, the following documents¹⁰ have to be submitted for the approval procedure.

1. Accreditation certificate including enclosures for all applied methods in German or English.
 - List of methods with status "under development". The evidence has to be submitted that the accreditation is expected within the next 12 months.
2. Validation documents for all applied test methods. The documentation should comprise the following:
 - Consideration of typical matrix types (for pesticides water-rich, water- and acid-rich, starch-rich, fat-rich).
 - Dopings repeated five times at the limit of quantification and on a higher level, e.g. ten times higher.
 - Representation of the mean values of the recoveries and the variation coefficients.
 - Representation of the lab-internal extended measuring uncertainty.
 - At the multi-method: Complete spectrum of analysis of all active substances and metabolites (including limits of quantification), subdivided according to the used detection components.
 - Representation of the mean values of the recoveries and the coefficients of variation of the entire spectrum of substances or at least their typical representatives.
 - Confirmation that validation has complied with the required criteria for identification, in particular when checking the limit of quantification (e.g. measurement of two mass transfers in GC-MS/(MS) and LC-MS/MS).
 - Information about the used methods for active substances with complex residue definition:
 - Identification and validation of all analytes via the multi-method, e.g. Amitraz, Flonicamid, Spirotetramat
 - Use of additional single methods for detection of residue definition, e.g. alkaline hydrolysis in phenoxy-carboxylic acids. In this case, beside the acids, also typical ester compounds or conjugates have to be validated.
3. Verification documents (current procedures for performance review during routine analysis)
 - Verification of accuracy (recovery, repeatability) for all parameters of all examination methods.
 - at the multi-method
 - all analytes of the substances spectrum according to the specifications SANTE,
 - Presentation of data for new active substances, e.g. newly included active substances in the examination spectrum by QS.
4. Laboratory suitability tests
 - Overview of all conducted laboratory suitability tests.
 - Proof of participation in current external laboratory suitability tests has to be submitted for every applied examination method presented in the form of the original report including cover sheet and laboratory code.
 - for multi-method, at least three participations in the previous year or current year
 - for single methods, at least one participation in the last five years
 - for missing laboratory suitability tests, planning for an intended participation.
5. Copy of an exemplary test report including all relevant residue levels (cf. requirements for test reporting, guideline 6.8).

¹⁰ The documents must be submitted in such a form that the numbering listed above can be found in the electronic document name or in a document overview.



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6. Documentation of subcontracting (if necessary).