Method Validation and Quality Control Procedures for Pesticide Residue Analysis in Food and Feed SANCO/12495/2011

8th Review

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Why do we need the guidelines?

- To harmonize cost effective AQC in the EU = to find an optimum between cost and output (efficiency/quality)
- To help monitoring laboratories achieve an acceptable standard
- The reported results are reliable and consistent with other similar results
- To support compliance with ISO/IEC 17025 accreditation standard

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Reviews:

1. Doc. SANCO 7826/IV71997
2. Doc. SANCO/3103/2000
   - discussed at EU AQC,1999, in Greece
3. Doc. SANCO/10476/2003
   - discussed at EU AQC, 2003 in UK
4. Doc. SANCO/10232/2006
   - discussed at EU AQC, 2005 in Sweden
5. Doc. SANCO/3131/2007
   - discussed at EU AQC, 2007 in Spain (EU RL)
6. Doc. SANCO 10684/2009
   - discussed at EU AQC, 2009 in Copenhagen (EU RL)
7. Doc. SANCO 12495/2011
   - discussed at EU AQC, 2011 in Freiburg (EU RL)
8. Doc. SANCO xxxx/2013
   - discussed at 8th EU AQC, 2013 in Almeria (EU RL)

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Advisory group-AVG

• Mette Erecius Poulsen	EURL-CER
• Miquel Gamón	EU RL-FV
• Amadeo Fernández R. Alba	EU RL-FV
• Ralf Lippold	EU RL-AO
• Michelangelo Anastassiades	EU RL-SRM
• André de Kok	NL
• Stewart Reynolds	UK
• Richard Fussel	UK
• Antonio Valverde	ES
• Sonja Messelter (2009)	A
• Hans Mol (2009)	NL
• Darinka Steinberger (2011)	SV
• Magnus Jezzusek (2011)	DE
• Tuija Pihlström (Coordinator)	SE
• Arne Andersson (1997-2009)	SE

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Latest revisions of the AQC document - main topics

2005	Accreditation Analytical methods and analytical performance Confirmation of results *Recovery correction (reporting results)*
2007	Representative analytes Minimum number of analytes for calibration and routine recovery Inclusion of AO, CER and feed in the document. Measurement uncertainty, reporting results *Recovery correction (reporting results)*
2009	Mass spectrometry Appendix A and B Annex I *Recovery correction (reporting results)*
2011	LOQ for multi component residues. The requirements for screening methods Conversion factors for all multi-component New definitions of the different types of internal standards Stability of pesticide standards Calculation of the MU

Revision procedure

The advisory group (AQC-AdvG) agreed to start the process of the revision at early stage. As a preparation to this undertaking the group decided to introduce a short AQC-session within the EURL-workshop in Cyprus 12-13 November to have the opportunity to discuss specific AQC-topics that might need to be introduced or revised

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Revision procedure

Proposals for changes and new issues (AQC-AdvG):

- Overall document revision (structure and content)
- Identification criteria in MS applications
- Validation criteria of screening methods
- Standard stability
- Requirements for flexible scope accreditation
- Sample processing, influence of particle size
- Pooling of samples with low frequency of findings

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Revision procedure

On the basis of these proposals, a survey was sent to the participants in order to have the opinion on the selected topics/issues and to propose additional topics that would be introduced or revised. The additional topics were :

- General aspect of the revision
- Calibration/standard addition
- Expression of results
- Results outside of the calibration range
- Procedure for supplementing samples
- Recovery set up
- Representative/represented pesticide approach

Compiled comments and replies on "Proposals for topics to be revised/introduced in the AQC-document"

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Legal basis

The document entails mutually acceptable scientific rules for official pesticide residue analysis within the EU as agreed by all Member States of the European Union and constitutes a technical guideline in the sense of article 28 of Regulation 396/2005. It should thus be consulted in audits and accreditations of official pesticide residue laboratories according to ISO/IEC 17025.

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Agreement on the new version
Voting October 25

1) Voting on the entire document
2) Open voting –one vote/MS
3) For decision, majority rule is applied (90%)

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Overall document revision (structure and content)

	A. Introduction and legal background ----------
Analysis	B. Sampling, transport, traceability and storage of laboratory samples
	C. Sample Analysis
	D. Identification and Confirmation of Results
	E. Reporting results ----------
	F. Pesticide standards, calibration solutions, etc.
Validation	G. Analytical method validation and performance criteria
	H. Additional Recommendations for Good Laboratory Practice