

Agrochemicals Analysis (AA) Sub-Group Report

CORESTA AP2021 Virtual Conference

4th October 2021





- To perform regular proficiency testing of Multi-Residue Methods for the analysis of agrochemical residues on tobacco.
- To undertake joint experiments to resolve unanswered questions arising from proficiency tests; to expand knowledge base on agrochemical residues and their analysis.
- To produce and maintain a series of Technical Notes (on different agrochemical residue classes and selected individual compounds) to supplement the Technical Guideline and aid method development and improvement



Proficiency testing 2021 (FAPAS FT0117)

- ✤ 116 CPAs listed in CORESTA Guide No.1 and its 13 GRL candidates
- Direction on reporting the sum of CPAs
 - Residue definition and Conversion factor
- Two test materials (artificially spiked and agronomically incurred)
 - > 21 CPAs spiked on blank Burley tobacco
 - > 20 CPAs in incurred Burley tobaccos (offered by RFT SG)
- ✤ 22 laboratories from 17 countries
- z-score evaluation
- ✤ FAPAS report in July 2021
- Discussion at online SG meeting in September 2021



Fapas® – Food Chemistry Proficiency Test Report FT0117

Pesticides in Tobacco

March-June 2021





AA SG Report CORESTA AP2021 Virtual Conference – 211004

Centre de Coopération pour les Recherches Scientifiques Relatives au Tabac

Cooperation Centre for Scientific Research Relative to Tobacco



Follow-up of Joint Experiment Technical Study on Matrix Effects from DAC tobacco

- This JETS was conducted with the aim of knowing if there are any differences in MEs among DAC, BLY and FCV.
- The outcome indicated no significant difference in the MEs was observed among DAC, BLY and FCV.
- The report was published on the CORESTA website in April 2021.
- * Next steps to be considered once test materials available



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Agrochemicals Analysis Sub-Group
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Joint Experiment Technical Study (JETS) Report 19/1 Matrix Effects from Dark Air-Cured Tobacco

April 2021

Authors: Sayaka Kawamura, Japan Tobacco Inc., Japan Shun Ueyama, Japan Tobacco Inc., Japan <u>Sub-Group Coordinator & Study Project Leader</u>: Masahiro Miyoshi, Japan Tobacco Inc. Japan



Method development of Fluensulfone and BSA

- Backgrounds
 - > ACAC sets provisional GRL 0.15 mg/kg for Fluensulfone
 - Residue definition: Fluensulfone and its metabolite Butene Sulfonic Acid (BSA)
 - ADAMA kindly provided 10 AA SG member laboratories with reference materials of BSA
- Results
 - One member laboratory presented its developed method of Fluensulfone and BSA
 - Fluensulfone: LoQ 0.03 mg/kg (GC-MS/MS)
 - BSA: LoQ 0.03 mg/kg (LC-MS/MS)



Fluensulfone



Butene Sulfonic Acid (BSA)



2021 online AA SG meeting

- September 3rd, 2021
- Some 30 participants from 14 countries
- Reviews of proficiency testing
- Follow-up of JETS on DAC
- Method development of novel GRL candidate
- Updates of ACAC and RFT SG



CORES 2		
CORESTA Sub-Group on Agrochemicals Analysis		
	60 th Meeting on 3rd September	2021
Time: Venue:	07:00 - 09:00 (Washington DC) 08:00 - 10:00 (Izmailin, Buence Aires) 12:00 - 14:00 (London) 13:00 - 15:00 CET (Harrer, Llongwe, Berlin, Stockholm, Vienna) 14:00 - 15:00 CHthers) 15:00 - 17:00 (Lothers) 15:00 - 17:00 (Lothers) 15:00 - 21:00 (Beijing) 20:00 - 22:00 (Beijing) X Teams	
Agenda		
r, September 3r	d, 2021	
Welcome, meeting agenda, etc. Review of the minutes of the 59th Meeting		Masahiro Miyoshi Heather Westberg
Review of Fapas PT round 17 Masahre Mysolv/Dombic Anderson Course of events, Study design and Participants all 50 Members Darticipants all 50 Members all		
JETS 19/1 on matrix effect in Dark Air Cured tobacco Shun Veyam		Shun Ueyama
Method development of Fluensulfone and BSA		Bernhard Mayer-Helm

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Masahiro Miyoshi

Naoki Watanabe

Masahiro Miyosh

Marco Prat

Friday 13:00 (CET)

13:15 (CET)

14:00 (CET) 14:05 (CET)

(CET) 14:25 ACAC update (CET)

(CET)

(CET)

14:20 Other AA Sub-Group activities

14:40 Residue Field Trial Sub-Group update

14:55 Next meeting venue and closing



AA SG – Next Activities

- Proficiency testing
 - > Study design of 2022 testing to be planned with Fera
- Joint Experiment Technical Study
 - Next steps to be considered
- Other activities
 - > Revision of technical documents (Technical Guideline or Technical Notes)
 - Residue definition information for ACAC and RFT SG
 - > Encouragement to develop method of GRL candidates (supplying standard materials)
 - ➢ etc.



Acknowledgment

Proficiency testing 2021 (FAPAS FT0117)

- Dominic Anderson (Fera)
- Marco Prat (JTI)
- * Torbjörn Synnerdahl (Eurofins Sweden)
- CORESTA RFT SG
- Participating laboratories

Method development of Fluensulfone and BSA

- ADAMA
- Bernhard Mayer-Helm (JTI, Ökolab)





Thank you for your attention!

AA SG Report CORESTA AP2021 Virtual Conference – 211004 Centre de Coopération pour les Recherches Scientifiques Relatives au Tabac Cooperation Centre for Scientific Research Relative to Tobacco