



AOAC INTERNATIONAL

Food Authenticity/Fraud Program

Non-Targeted Working Group

Meeting Minutes (May 8, 2019)

Attendees:

John Szpylka, Mérieux NutriSciences (Chair)
Virginie Barrere, Université Laval
Joe Boison, Independent Consultant
Emily Britton, Waters Corp.
France Cho, Maxxam Analytics
Stefan Ehling, Abbott Nutrition
Karen Everstine, Decernis
Steven Gendel, US Pharmacopeia
Steve Holroyd, Fonterra Cooperative
Leslie Hoo Fung, International Centre for Environmental
and Nuclear Sciences
Hari Narayanan, Metrohm USA Inc.
Salvatore Parisi, Al Balqa Applied University
Melissa Phillips, NIST
Bert Pöpping, FOCOS - Food Consulting Strategically
David Psomiadis, Imprint Analytics
Luis Rodriguez-Saona, The Ohio State University
Paul Sadek, Mars Inc.
Mei Shotts, Abbott Nutrition
Tom Seipelt, Abbott Nutrition
Hiroko Suzuki, Japan Food Research Laboratories
Mehrdad Tajkarimi, EAS Consulting Group
Jérémie Theolier, Université Laval
Zhuohong (Kenny) Xie, US Pharmacopeia
Betsy Yakes, US FDA

AOAC Staff:

Delia Boyd
Scott Coates
Deborah McKenzie
Krystyna McIver (Consultant)

Working Group Discussions:

The meeting began with welcome and introductions of participants. The working group chair provided the members with a presentation on the priority commodities including the sampling (homogeneity and protocol) as previously defined by the advisory panel. The category consists of:

- Olive Oil
- Honey
- Milk and Milk Products

The meeting goals included defining the required performance categories as well as to formulate a plan to populate the categories. The working group began discussions on the applicability statement and the non-

targeted testing models’ properties of the authentic material, defining the reference set of authentic samples, test set to evaluate method, typical and atypical samples, and technology. Additional discussions leveraged the USP guidelines for non-targeted testing, POI, and how to use targeted adulterants to assess method performance on unknown adulterants.

The working group also discussed in detail, information that would be required for the Standard Method Performance Requirement (SMPR®). Please see chart below on status.

Proposed Categories

Proposed SMP Inclusion	Yes / No
Applicability Statement	Absolute Yes
Base %EMA	No
POI100	No
POI50	No
Define reference set (min set of known adulterants)	
Recipes for atypical samples	No
Sensitivity & Define Testing Concentration Range	Yes
Specificity	Yes
Receiver Operating Characteristic	
Reference Materials?	Yes
Sample Homogeneity Requirements	No
Sampling Protocol & Homogeneity Requirements	Yes
Instrument System Suitability Requirements	Yes
Food Scope	
Analytical versus Production Usage	

ACTION ITEMS:

- Kenny Xie (USP) to send AOAC a copy of the USP-FCC Non-targeted Methods Guidance