



SCOPE OF ACCREDITATION TO ISO/IEC 17043:2010

UNIVERSITY OF KENTUCKY
CENTER FOR TOBACCO REFERENCE PRODUCTS
1401 University Drive
Lexington, KY 40546
Ruth McNees (859) 257 9133

PROFICIENCY TESTING PROVIDER

Valid To: June 30, 2025

Certificate Number: 4034.01

In recognition of the successful completion of the A2LA evaluation process, this proficiency testing provider has been found to meet the ISO/IEC 17043:2010, "Conformity assessment - General Requirements for Proficiency testing." Therefore, accreditation is granted to this provider to offer the following proficiency testing programs:

DISCIPLINE	PT MATRIX/ITEM	FREQUENCY	PROPERTIES MEASURED / RANGE OF MEASUREMENT	TECHNIQUES USED TO DETERMINE ASSIGNED VALUE / UNCERTAINTY
Constituents in Mainstream Smoke	Cigarettes	Three times a year	1. Total Particulate Matter (TPM) 2. Nicotine 3. Carbon monoxide 4. Nicotine-free dry particulate matter (NFDPM) 5. Water 6. Puff count 7. Ammonia 8. Arsenic 9. Cadmium 10. NNK 11. NNN 12. 1,3-Butadiene 13. 1-Aminonaphthalene 14. 2-Aminonaphthalene 15. 4-Aminobi-phenyl 16. Acetaldehyde 17. Acrolein 18. Acrylonitrile 19. Benzene 20. Benzo(a)pyrene 21. Crotonaldehyde 22. Formaldehyde 23. Isoprene 24. Toluene	Consensus values from participants – using statistical methods described in ISO 13528 and ISO 5725-1 to 6

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Constituents in Mainstream Smoke (cont)	Cigarettes	Three times a year	25. Hydrogen Cyanide 26. Nitrogen Oxides 27. NAT 28. NAB 29. o-Toluidine 30. 2,6-Dimethylaniline 31. o-Anisidine 32. 3-Aminobiphenyl 33. Acetone 34. Propionaldehyde 35. 2-Butanone 36. n-Butyraldehyde	Consensus values from participants – using statistical methods described in ISO 13528 and ISO 5725-1 to 6
Cigarette Physical Parameters	Cigarettes	One time per year	1. Resistance to Draw 2. Total Ventilation 3. Tobacco Weight 4. Cigarette Weight 5. Air Permeability Banded 6. Air Permeability Un- banded 7. Filter Pressure Drop 8. Filter Ventilation 9. Circumference 10. Cigarette Length 11. Filter Plug Length 12. Tipping Paper Length	Consensus values from participants – using statistical methods described in ISO 13528 and ISO 5725-1 to 6
Constituents in Smokeless Tobacco	Swedish snus, Snus, loose leaf tobacco, and moist snuff, 1R6F cigarette filler	One time a year	1. Total Nicotine 2. Free Nicotine 3. NNN 4. NNK 5. NAT 6. NAB 7. Acetaldehyde 8. Crotonaldehyde 9. Formaldehyde 10. Benzo[α]pyrene 11. Cadmium 12. Arsenic 13. Moisture 14. pH	Consensus values from participants – using statistical methods described in ISO 13528 and ISO 5725-1 to 6



Accredited Proficiency Testing Provider

A2LA has accredited

UNIVERSITY OF KENTUCKY CENTER FOR TOBACCO REFERENCE PRODUCTS *Lexington, KY*

This accreditation covers the specific proficiency testing schemes listed on the agreed upon Scope of Accreditation.

This provider is accredited in accordance with the recognized International Standard ISO/IEC 17043: 2010 *Conformity assessment - General requirements for proficiency testing*. This accreditation demonstrates technical competence for a defined scope and the operation of a quality management system.



Presented this 16th day of April 2021.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4034.01
Valid to June 30, 2025
Revised May 21, 2025

For the proficiency testing schemes to which this accreditation applies, please refer to the provider's Scope of Accreditation.