



# **Cigar Smoking Methods (CSM) Sub-Group Report**

**Cancun, Mexico**

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# CSM SG Leaders and Objectives

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## Objectives:

- 1- To develop and update CORESTA Recommended Methods as requested by the Scientific Commission by investigating the technical problems associated with the mechanical smoking of cigars
- 2- To conduct periodical collaborative studies in order to improve repeatability and reproducibility in different cigar sizes and types
- 3- To establish confidence intervals for the smoke yields of all different cigar sizes

❖ A wrap up of cigar related CRM's:

	Title	Published
N° 46	Atmosphere for Conditioning and Testing Cigars of all Sizes and Shapes	June 2018
N° 47	Cigars – Sampling	July 2023
N° 64	Routine Analytical Cigar-Smoking Machine - Specifications, Definitions and Standard Conditions	May 2018
N° 65	Determination of Total and Nicotine-Free Dry Particulate Matter using a Routine Analytical Cigar-Smoking Machine – Determination of Total Particulate Matter and Preparation for Water and Nicotine Measurements (fourth edition)	Aug. 2019
N° 66	Determination of Nicotine in the Mainstream Smoke of Cigars by Gas Chromatographic Analysis	March 2020
N° 67	Determination of Water in the Mainstream Smoke of Cigars by Gas Chromatographic Analysis	March 2020
N° 68	Determination of Carbon Monoxide in the Mainstream Smoke of Cigars by Non-Dispersive Infrared Analysis	March 2020



# Sub-Group Cigar Smoking Methods

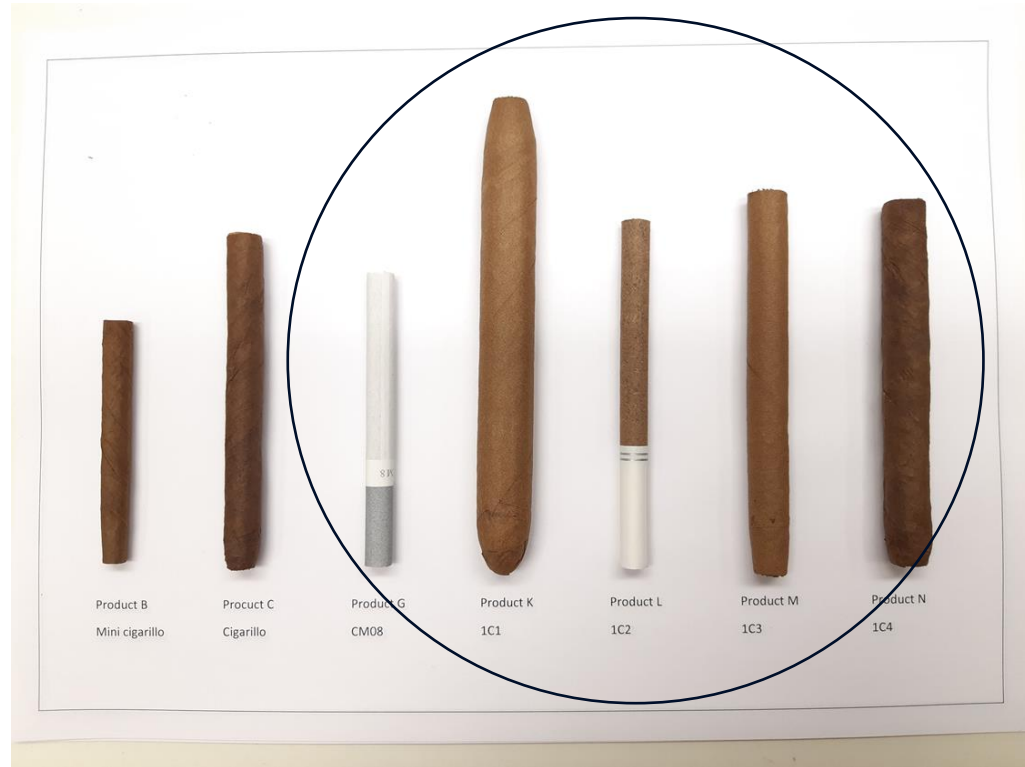
- ❖ Last Meeting: 8th October 2023
- ❖ Summary of the activities and discussion:
  - Periodical collaborative studies to document r&R: Results of CS 16 was reported in spring 2023. CS 17 is ongoing applying reference products from UKY.
  - CRM 47 has been reviewed
  - NWIP-391 has been submitted and is under consideration with SC
  - CS 18 is planned for end of 2024 or beginning of 2025

❖ 16th Collaborative study 2022 - Cigars

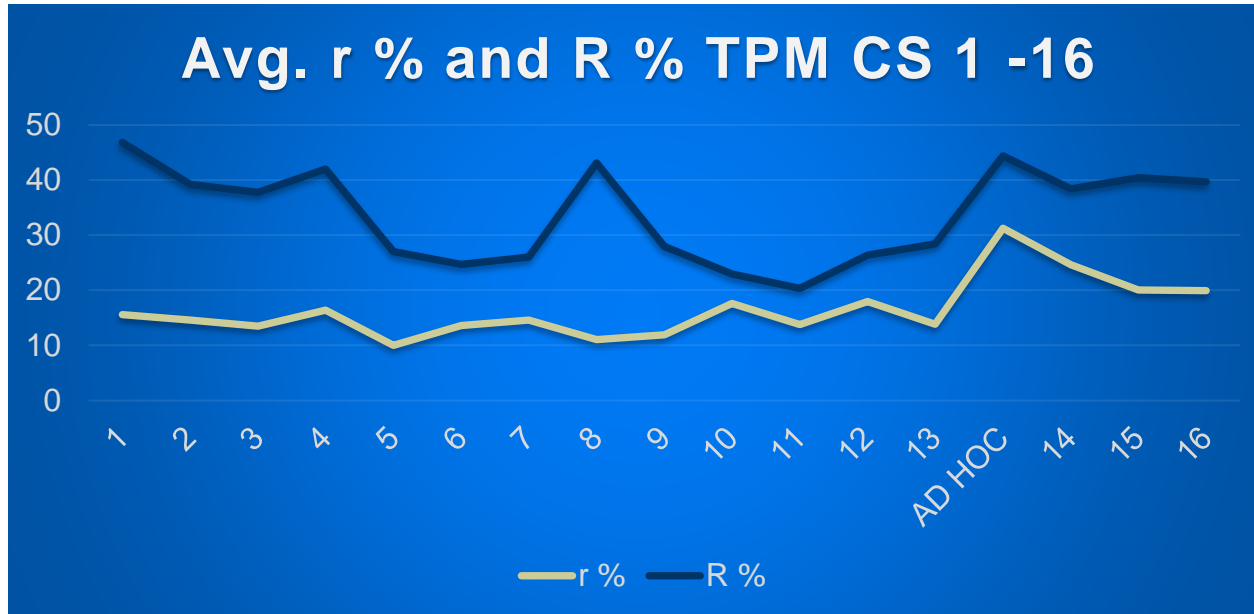
	Description
G	CM09, Coresta Monitor cigarette (Borgwaldt, Cerulean)
K	1C1 (UKY) Large cigar, HTL wrapper, Dia (mm): 15,9 Length: 136,5 Mass (g): 6,4
L	1C2 (UKY) Little cigar, filter, Dia (mm): 7,8 Length: 99,0 Mass (g): 1,4
M	1C3 (UKY) Small cigarillo, Dia (mm): 11,0 Length: 109,5 Mass (g): 2,7
N	1C4 (UKY) Large cigar, all natural, Dia (mm): 12,8 Length: 103 Mass (g): 3,2

# Sub-Group Cigar Smoking Methods

- Collaborative Study 16
- 5 test products:
- G ,K, L, M, N,



- Historical results TPM mg/test item: r & R %



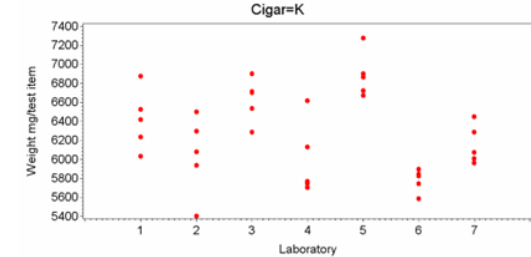
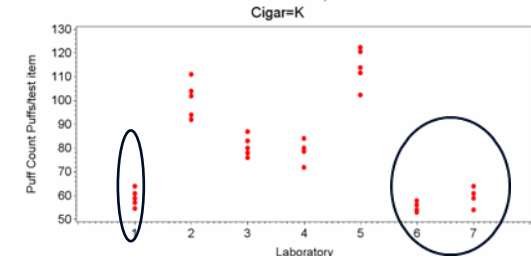
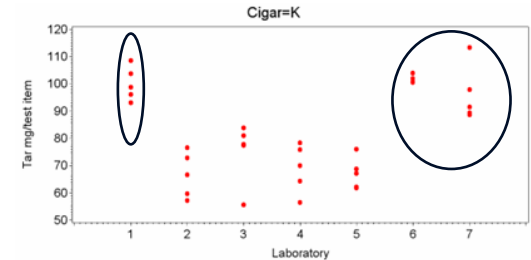
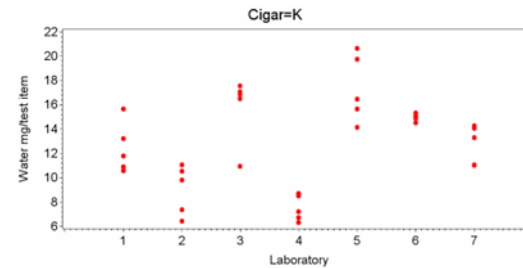
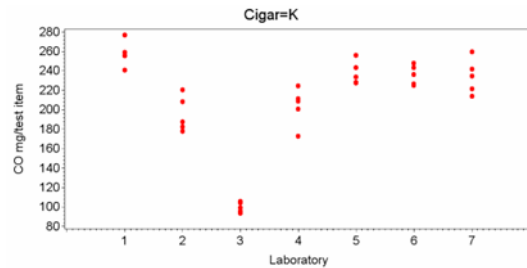
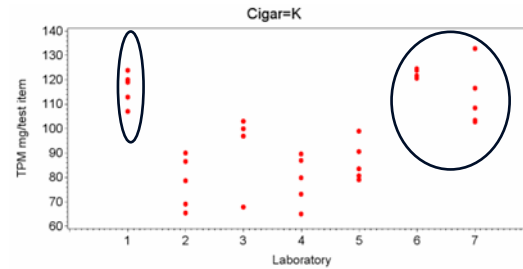
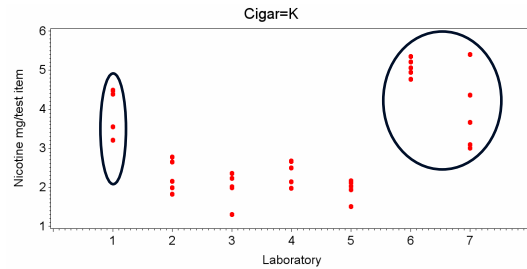
# Sub-Group Cigar Smoking Methods

❖ Collaborative Study 16 - 2022: Results TPM mg/test item: r & R

Product	Mean	N Labs	r	r (%)	R	R (%)
K (1C1)	98,3	7	28,61	29,1%	64,34	65,4%
L (1C2)	22,9	7	3,71	16,2%	8,83	38,6%
M (1C3)	63,3	7	8,54	13,5%	20,75	32,8%
N (1C4)	63,5	7	14,20	22,4%	22,01	34,7%
O (CM9)	15,8	7	2,91	18,4%	4,24	26,9%



## ❖ Collaborative Study 16, test item K



## Sub-Group Cigar Smoking Methods

- ❖ An outcome of CS 16 was a decision to replace product K with Product 1RLC (UKY) in CS 17

Parameter	1RLC spec.	1C1 (K) spec.
Diameter	14.5-16.0 mm	15.9
Cigar Length	130-145 mm	136.5
Filler Tobacco		
Weight	5.5-7.1 g	
Finished Cigar		
Weight	6.5-8.0 g	6.4
Wrapper Type	HTL	HTL
Binder Type	HTL	HTL
Flavored	No	No

# Sub-Group Cigar Smoking Methods

- ❖ NWIP-391 is submitted to the SC, currently under review
- ❖ “Study of the long-term variability of commercial cigars”
- ❖ Strategic Subject/Workstream: Product Knowledge/Product variability
- ❖ A study of 10 commercial cigars, over 3 years
  - Sampling every 6 month
  - All samples to be stored in freezer and analyzed at one point in time
  - Analytes:
    - Physical: Weight, circ, length, RTD
    - In leaf: Nic, Ammonia, Nitrate, Red. Sugars, As, Cd, NNN, NNK
    - In smoke: NFDPM, Nicotine, CO

## ❖ Activities planned in 2024

- Reporting of CS 17
- Initiation of NWIP-391 (if approved by SC)
- Review of CRM 64 and CRM 65
- Review of CRM 46, 64 and 65
- Planning and initiation of CS 18



# Sub-Group Cigar Smoking Methods

Thank you