Invitation: OGTAC-CC - 2026_ILC_BB_module_1+2

Dear all,

On behalf of the OGTAC-CC, I kindly invite you to our 2026 interlaboratory comparison on the biomass burning tracers from module 1 and the primary biogenic source tracer compounds from module 2 (full list is attached).

The OrGanic Tracers and Aerosol Constituents - Calibration Centre (OGTAC-CC) is one topic centre unit within ACTRIS (The Aerosol, Clouds and Trace Gases Research Infrastructure) and its activities are a part of the ACTRIS QA/QC framework to be implemented by the ACTRIS national facilities (NFs) across Europe serving to assure the QA/QC for these facilities and the results generated by them. It aims two QA/QC purposes in support of offline chemical speciation of particulate organic tracers sampled on filters: First, to provide training and good-practice guidance covering filter collection, transport and storage, sample preparation, and data analysis. Secondly, performing interlaboratory comparisons to harmonize technical requirements and standard operating procedures (SOPs).

We´re looking for laboratories interested in participation in our upcoming ILC on the “mass concentration of particulate organics” from module 1(+2) to further strengthen this QA/QC activity. The 2026 ILC is scheduled for November 2026 till January 2027 subject to the following conditions:

- Participating laboratories should use their individual standard operating procedure (SOP)
- CC will send around real filter samples and synthetic samples, a minimum of three samples each is planned, plus one blank filter as control sample
- CC will send around two standard solutions
- CC set the guidelines with respect to the number of sample runs and injections, triplicate analysis (each sample three times full analytical procedure) for the filter samples and 3 injections each for the standard solutions is required from each participating laboratory
- Data template is provided by the CC

For questions please contact me, Dr. Falk Mothes (mothes@tropos.de) or check out our recently published results of the last ILC from 2024: https://doi.org/10.1016/j.atmosenv.2026.122179.

If this has piqued your interest please get in touch with us. Expression of interest is possible until end of September 2026.

Best,

Falk

	Module name	sum formula	IUPAC	CAS number
Module 1	Biomass burning (Anhydromonosaccharides)			
1	Levoglusosan	C6H5O10	(1R,2S,3S,4R,5R)-6,8-dioxabicyclo[3.2.1]octane-2,3,4-triol	498-07-7
2	Mannosan	C6H5O10	(1R,2S,3S,4S,5R)-6,8-dioxabicyclo[3.2.1]octane-2,3,4-triol	14168-65-1
3	Galactosan	C6H5O10	(1R,2R,3S,4R,5R)-6,8-dioxabicyclo[3.2.1]octane-2,3,4-triol	644-76-8
Module 2	Primary biogenic (pollen / fungal spores)			
1	Erythritol	C4H10O4	(2S,3R)-butane-1,2,3,4-tetrol	149-32-6
2	Arabitol	C5H12O5	(2R,4R)-pentane-1,2,3,4,5-pentol	D=488-82-4; L=7643-75-6
3	Glucose	C6H12O6	(3R,4S,5S,6R)-6-(hydroxymethyl)oxane-2,3,4,5-tetrol	D=50-99-7; L=921-60-8
4	Fructose	C6H12O6	(3S,4R,5R)-1,3,4,5,6-pentahydroxyhexan-2-one	D=57-48-7; L=7776-48-9
5	Mannose	C6H12O6	(3S,4S,5S,6R)-6-(hydroxymethyl)oxane-2,3,4,5-tetrol	D=3458-28-4; L=10030-80-5
6	Galactose	C6H12O6	(3*R*,4*S*,5*R*,6*R*)-6-(hydroxymethyl)oxane-2,3,4,5-tetrol	D=59-23-4; L=15572-79-9
7	Mannitol	C6H14O6	(2R,3R,4R,5R)-hexane-1,2,3,4,5,6-hexol	D=69-65-8; L=643-01-6
8	Ergosterol	C28H44O	(3S,9S,10R,13R,14R,17R)-17-[(E,2R,5R)-5,6-dimethylhept-3-en-2-yl]-10,13-dimethyl-2,3,4,9,11,12,14,15,16,17-decahydro-1H-cyclopenta[a]phenanthren-3-ol	57-87-4