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# Reference Material
# MOSH/MOAH in green tea

## P2403-RMGt

## Summary

Reference material P2403-RMGt is validated in method ring test P2403-MRT, which is organised, performed, and evaluated according to the requirements of DIN EN ISO/IEC 17043 and the "International Harmonized Protocol". ISO 13528 is considered during the evaluation of the submitted results of P2403-MRT and during homogeneity testing. Details related to the applied statistics are summarised in the full specification, which is provided after purchase of the reference material.

Reference material P2403-RMGt consists of 50 g green tea (powder), which was contaminated with MOSH and MOAH during production or processing of the tea (see table 1).

15 laboratories took part in method ring test P2403-MRT. The assigned values, which are calculated of the results of the participants of P2403-MRT, are summarised in table 1.

*Table 1. Reference material P2403-RMGt - assigned values*

| Parameter | Spiked level [mg/kg] | Assigned value [mg/kg] | Total number of results |
|---|---|---|---|
| Total MOSH (≥ n-C10 to ≤ n-C50) | unspiked | 115 | 15 |
| Total MOAH (≥ n-C10 to ≤ n-C50) | unspiked | 19.6 | 15 |

In P2403-MRT, the labs were instructed to determine total MOSH and total MOAH in accordance with the guidance document of the Joint Research Centre of the European Commission (5) as follows:

*"[…]by integrating the chromatogram,*

- *from the retention time of the beginning of the n-C10 peak;*
- *to the retention time of the end of the n-C50 peak;*
- *after the trimming of the riding peaks […] above the hump(s); and*
- *after the subtraction of/adjustment for the reagent blank (baseline).*

*The obtained "corrected hump" should be an unambiguously identified smooth hump" (page 15).*