

# Reference Material

## MOSH/MOAH in barbecue sausage

### P2302-RMSa



## - Summary -

Please note:

Reference material P2302-RMSa is a validated control material and not a certified reference material. The reference material is validated in method ring test P2302-MRT with 12 laboratories. The method ring test is organised, performed and evaluated according to the requirements of DIN EN ISO/IEC 17043 and the “International Harmonized Protocol”. DIN ISO 13528 is considered during the evaluation of the submitted results of P2302-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.

The reference material P2302-RMSa consists of 50 g of homogenised barbecue sausage, which is spiked with a grease and a technical white oil (see table 1).

The corresponding unspiked homogenised barbecue sausage is available as blank material P2302-BLSa (50 g). The blank material contains about 2 mg/kg of total MOSH, while total MOAH is < 0.6π mg/kg (see table 2).

12 laboratories took part in the method ring test P2302-MRT. The spiked levels as well as the assigned values, which are calculated of the results of the participants of the method ring test P2302-MRT, are summarised in table 1.

*Table 1. Reference material P2302-RMSa - spiked levels and assigned values*

Parameter	Spiked level [mg/kg]	Assigned value [mg/kg]	Total number of results
Total MOSH (total hump) (≥ n-C10 to ≤ n-C50)	7.2	8.69	12
Total MOAH (total hump) (≥ n-C10 to ≤ n-C50)	3.5	2.63	11

*Table 2. Blank material P2302-BLSa - assigned values*

Parameter	Spiked level [mg/kg]	Assigned value [mg/kg]	Total number of results
Total MOSH (total hump) (≥ n-C10 to ≤ n-C50)	unspiked	1.99	12
Total MOAH (total hump) (≥ n-C10 to ≤ n-C50)	unspiked	< 0.6	12

Total MOSH and total MOAH are determined by the labs according to the guidance document of the Joint Research Centre of the European Commission (2<sup>nd</sup> Edition):

*„The "total MOSH/MOAH content" (n-C10-C50) is determined 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).*