

Validated Reference Material MOSH/MOAH in palm oil

P1917-RMPo1



- Summary -

Please note:

Reference material P1917-RMPo1 is a validated control material and not a certified reference material. The reference material consists of 50 g of palm oil, which is spiked with the lubricant oil Shell Gadus as well as with a technical creeping oil. Both spiking oils contain MOSH and MOAH (see table 1). The corresponding unspiked palm oil is available as blank material P1917-BLPo1 (50 g). The blank material contains total MOSH at a level of < 4 mg/kg as well as traces of total MOAH (< 1 mg/kg).

The reference material is validated in method ring test P1917-MRT with 16 laboratories. The spiked levels as well as the assigned values, which are calculated of the results of the participants of the method ring test P1917-MRT, are summarised in table 1. The spiked levels are provided for information only. Due to the levels of MOSH and MOAH in the raw material the assigned values are higher than the spiked levels. Laboratories are free to calculate the difference between the quantified concentration levels in the blank material and the quantified concentration levels in the test material as an approximation of the true (spiked) level of total MOSH resp. total MOAH. The difference should correspond to the spiked levels.

Table 1. Spiked levels and assigned values

Parameter	Spiked level [mg/kg]	Assigned value [mg/kg]	Total number of results
Total MOSH (\geq n-C10 to \leq n-C50)	31.5*	32.6	16
Total MOAH (\geq n-C10 to \leq n-C50)	3.5*	4.11	12

* The spiked levels of total MOSH and total MOAH are provided for information only.