

Reference Material
MOSH/MOAH GC×GC-TOF-MS
Dried beans

P2606-RMDb



Summary

Reference material P2606-RMDb is designed for qualitative analysis of MOSH and MOAH, of subgroups thereof, as well as of typical marker substances. The material is suitable for analysis by GC×GC-TOF-MS.

Reference material P2606-RMDb is validated in method ring test P2606-MRT, which 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 P2606-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 P2606-RMDb consists of 60 g of dried beans (flour), which are spiked with a lubricant oil and a process oil, a poly alpha olefin (PAO), and benz[a]anthracene (for homogeneity testing). Furthermore, the material contains a contamination with mineral oil components (phytane, pristane) as well as a contamination with POSH.

7 laboratories reported results in method ring test P2606-MRT related to the test material dried beans. Results are evaluated based on a yes/no criterion for the presence resp. absence of the subgroups and the marker substances.

The material contains

- n-alkanes, i-alkanes, multi-branched alkanes, cycloalkanes,
- hopanes,
- steranes,
- phytane,
- pristane,
- POSH,
- PAO,
- Alkylated benzenes, naphthalenes, anthracenes, and benzanthracenes, and
- 1- to 6-ring MOAH,

while

- waxes,
- ROSH, and
- ROAH

are not present.

DIPN and benzothiophenes are detectable but not specified for this material.