

Reference Material Ethylene oxide in peppercorn (piper nigrum)

P2420-RMPe



Summary

Reference material P2420-RMPe is validated in the ring test P2420-RT, 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 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 P2420-RMPe consists of 50 g of ground black peppercorn, which is spiked with 2-chloroethanol (see table 1). The reference material is validated in ring test P2420-RT with 7 laboratories. The spiked levels are summarised in table 1.

The corresponding blank material P2420-BLPe is free from ethylene oxide (< 0.01 mg/kg).

Table 1. Spiked levels

Parameter	Spiked level [mg/kg]	No. of results	No. of results within 70-120 % of the spiked level
Ethylene oxide (Sum of ethylene oxide and 2-chloroethanol, expressed as ethylene oxide)	0.088	7	4
2-Chloroethanol	0.16*	-	-

* 2-Chloroethanol was spiked to the reference material. The spiked level of ethylene oxide is calculated based on the spiked level of 2-chloroethanol.