

Validated Reference Material Polar pesticides and contaminants in black tea

P2001-RMTea



- Summary -

Please note:

Reference material P2001-RMTea is a validated control material and not a certified reference material. The reference material consists of 100 g of milled black tea, which contains spiked levels of anthraquinone, biphenyl, chlorate, perchlorate, nicotine, glyphosate, AMPA, diquat, and paraquat (see table 1). The corresponding unspiked milled black tea (75 g) is available as blank material P2001-BLTea. The blank material is free from glyphosate, AMPA, diquat and paraquat at a concentration level of 0.01 mg/kg, contains traces of anthraquinone, biphenyl, chlorate and perchlorate all < 0.01 mg/kg and incurred residues of nicotine (about 0.080 mg/kg).

The reference material is validated in ring test P2001-RT with 14 laboratories. The spiked levels as well as the assigned values, which are calculated of the results of the participants of the ring test P2001-RT, are summarised in table 1.

Table 1. Spiked levels and assigned values

Parameter	Spiked level [mg/kg]	Assigned value [mg/kg]	Total number of results
Anthraquinone	0.045	0.0475	13
Biphenyl	0.045	0.0446	11
Chlorate	0.11	0.110	11
Perchlorate	0.25	0.250	11
Nicotine	0.21*	0.253	10
Glyphosate	0.085	0.0859	11
AMPA	0.055	0.0593	10
Diquat	0.070	0.0701	7
Paraquat	0.080	0.0867	7

* The spiked level related to nicotine is provided for information purposes only. The blank material contains nicotine at a concentration level of about 0.080 mg/kg.