

Validated Reference Material Polar pesticides and contaminants in green tea

P2108-RMGt



- Summary -

Please note:

Reference material P2108-RMGt is a validated control material and not a certified reference material. The reference material consists of 100 g of milled green tea with incurred residues of nicotine and trimesium and spiked levels of anthraquinone, biphenyl, chlorate, perchlorate, glyphosate, AMPA, diquat, paraquat, matrine, and oxymatrine (see table 1). The corresponding unspiked milled green tea (75 g) is available as blank material P2108-BLGr. The blank material contains incurred residues of anthraquinone (traces), biphenyl, nicotine, and trimesium, while it is free from incurred residues of all other parameters in this test (all not detected, RL: 0.01 mg/kg).

The reference material is validated in ring test P2108-RT with 15 laboratories. The spiked levels as well as the assigned values, which are calculated of the results of the participants of the ring test P2108-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	0.035	0.0355	12
Biphenyl	0.068	0.0703	12
Chlorate	0.045	0.0470	11
Perchlorate	0.025	0.0254	11
Nicotine	-*	0.210	13
Glyphosate	0.025	0.0260	10
AMPA	0.042	0.0402	10
Trimesium	-*	0.130	8
Diquat	0.055	-	5
Paraquat	0.11	-	5
Matrine	0.035	0.0352	8
Oxymatrine	0.045	0.0434	8

* Nicotine and trimesium are incurred residues.