

Validated Reference Material Highly polar pesticides and contaminants in green tea

P1908-RMTTea



- Summary -

Please note:

Reference material P1908-RMTTea is a validated control material and not a certified reference material. The reference material consists of 100 g of milled green tea, which contains spiked (and incurred) levels of anthraquinone, biphenyl, chlorate, perchlorate, nicotine, glyphosate, AMPA, diquat, and paraquat (see table 1). The corresponding unspiked milled green tea (100 g) is available as blank material P1908-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 and chlorate, all < 0.01 mg/kg and incurred levels of nicotine (about 0.18 mg/kg) and perchlorate (about 0.14 mg/kg).

The reference material is validated in ring test P1908-RT with 12 laboratories. The spiked levels as well as the assigned values, which are calculated of the results of the participants of the ring test P1907-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	0.017*	0.0180	11
Biphenyl	0.069*	0.0580	11
Chlorate	0.027	0.0262	11
Perchlorate	0.55*	0.648	11
Nicotine	0.43*	0.568	8
Glyphosate	0.031	0.0299	9
AMPA	0.035	-	8
Diquat	0.13	-	6
Paraquat	0.13	-	6