

# Reference Material

## Polar pesticides and contaminants in green tea

### P2314-RMGt



- Summary -

Please note:

Reference material P2314-RMGt is a validated control material and not a certified reference material. The reference material is validated in the ring test P2314-RT, 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 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 P2314-RMGt consists of 100 g of milled green tea. The tea contains incurred residues of perchlorate and trimesium and is spiked with 11 polar pesticides and contaminants (see table 1). The corresponding unspiked milled green tea (100 g) is available as blank material P2314-BLGt. The blank material contains incurred residues of perchlorate and trimesium and is free from incurred residues of all other spiked parameters.

The reference material is validated in ring test P2314-RT with 17 laboratories. The spiked levels as well as the assigned values, which are calculated of the results of the participants of the ring test P2314-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	0.0337	14
Biphenyl	0.025	0.0243	14
Chlorate	0.038	0.0397	15
Perchlorate	incurred	0.0527	15
Nicotine	0.31	0.283	14
Glyphosate	0.062	0.0575	9
AMPA	0.025	-	7
Trimesium	incurred	0.118	7
Diquat	0.064	-	7
Paraquat	0.045	-	7
Matrine	0.062	0.0609	7
Oxymatrine	0.048	-	6
2-Chloroethanol	0.16	0.150	10