

Reference Material

Polar pesticides and amino alcohols in chia seeds

P2211-RMCh



- Summary -

Please note:

Reference material P2211-RMCh is a validated control material and not a certified reference material. The reference material is validated in the ring test P2211-RT, which is organised, performed and evaluated according to the requirements of DIN EN ISO/IEC17043 and the “International Harmonized Protocol”. DIN ISO13528 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 P2211-RMCh consists of 200 g of whole, non-milled chia seeds, which are spiked with polar pesticides and amino alcohols (see table 1). The corresponding unspiked whole non-milled chia seeds (150 g) are available as blank material P2211-BLCh. The blank material is free from all spiked parameters at a level of 0.01 mg/kg (not detected).

The reference material is validated in ring test P2211-RT with 16 laboratories. The spiked levels as well as the assigned values, which are calculated of the results of the participants of the ring test P2211-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
Chlorate	0.11	0.109	14
Perchlorate	0.083	0.0667	14
Glyphosate	0.057	0.0418	12
Phosphonic acid	0.077	0.0635	14
Nicotine	0.083	0.0853	12
Diquat	0.039	0.0326	10
Paraquat	0.051	0.0452	11
Morpholine	0.079	0.0765	8
Diethanolamine	0.033	-*	8
Triethanolamine	0.042	-*	8
BAC C-10	0.031	0.0263	8
BAC C-12	0.023	0.0214	8
BAC C-14	0.041	0.0342	8
DDAC C-8	0.061	0.0547	8
DDAC C-12	0.035	0.0270	8

* The comparability criterion is not applicable to diethanolamine and triethanolamine due to the high variance of the reported results in P2211-RT.