

Reference Material

Polar pesticides in quinoa

P2318-RMQu



- Summary -

Please note:

Reference material P2318-RMQu is a validated control material and not a certified reference material. The reference material is validated in the ring test P2318-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 P2318-RMQu consists of 100 g of whole quinoa, which is spiked with seven polar pesticides and contains an incurred residue of phosphonic acid (see table 1). The corresponding unspiked quinoa (100 g) is available as blank material P2318-BLQu. The blank material contains trace levels of about 0.005 mg/kg perchlorate and is free from incurred residues of all other spiked parameters.

The reference material is validated in ring test P2318-RT with 7 laboratories. The spiked levels as well as the assigned values, which are calculated of the results of the participants of the ring test P2318-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	0.15	0.136	7
Perchlorate	0.065	0.0660	7
Phosphonic acid	incurred	0.225	7
Glyphosate	0.037	0.0423	7
Trimesium	0.025	-	3
Chlormequat chloride	0.045	-	5
Mepiquat chloride	0.026	-	5
Paraquat	0.077	-	5