Facing analytical quality.

proof acs

Reference Material
Polar pesticides and amino alcohols in kiwifruit

P2317-RMKi

- Summary -

Please note:

Reference material P2317-RMKi is validated in the ring test P2317-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 P2317-RMKi consists of 120 g of a kiwifruit homogenate, which is spiked with eight polar pesticides and metabolites thereof as well as with three amino alcohols (see table 1). The corresponding unspiked kiwifruit homogenate (120 g) is available as blank material P2317-BLKi. The blank material is free from incurred residues of all spiked parameters except phosphonic acid.

The reference material is validated in ring test P2317-RT with 13 laboratories. The spiked levels as well as the assigned values, which are calculated of the results of the participants of the ring test P2317-RT, are summarised in table 1.

Table 1. Spiked levels and assigned values

Parameter	Spiked level [mg/kg]	Assigned value [mg/kg]	No. of results
Phosphonic acid	0.057*	0.0698	13
Glyphosate	0.088	0.0824	12
N-Acetyl glyphosate	0.055	-	6
AMPA	0.045	-	10
N-Acetyl AMPA	0.025	-	6
Glufosinate	0.043	0.0430	10
N-Acetyl glufosinate	0.034	0.0327	9
MPPA	0.062	0.0725	9
Morpholine	0.12	-	6
Diethanolamine	0.054	-	5
Triethanolamine	0.026	-	5

* The spiked level of phosphonic acid is provided for information only. The assigned value indicates trace levels of phosphonic acid, which might be present in the blank material.

The accepted ranges are specified as followed:

- with respect to the trueness (70-120 % of the spiked level) for all parameters except phosphonic acid, and
- with respect to the comparability criterion for phosphonic acid, glyphosate, glufosinate, N-acetyl glufosinate, and MPPA.