

Reference Material

Pesticides typically found in citrus fruits

P2319-RMGr



- Summary -

Please note:

Reference material P2319-RMGr is a validated control material and not a certified reference material. The reference material is validated in the ring test P2319-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 P2319-RMGr consists of 180 g grapefruit homogenate, which is spiked with 12 pesticides, which are typically found in routine analysis of citrus fruits (see table 1). The corresponding unspiked grapefruit homogenate (100 g) is available as blank material P2319-BLGr. The blank material is free from incurred residues of all spiked parameters.

The reference material is validated in ring test P2319-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 P2319-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
Biphenyl	0.041	0.0373	11
Diphenylamine	0.071	0.0700	11
Imazalil	0.21	0.212	11
o-Phenylphenol	0.49	0.443	11
Morpholine	0.18	0.150	8
Diethanolamine	0.028	-*	7
Triethanolamine	0.061	0.0554	7
Cyhexatin	0.032	0.0374	9
Fenbutatin oxide	0.057	0.0580	11
Melamine	0.028	-*	1
Guazatine acetate	0.75	-*	6
Bromide	5.3	4.93	9

* The assigned value was not calculated for diethanolamine, melamine and guazatine in P2319-RT, due to the limited number of available results.