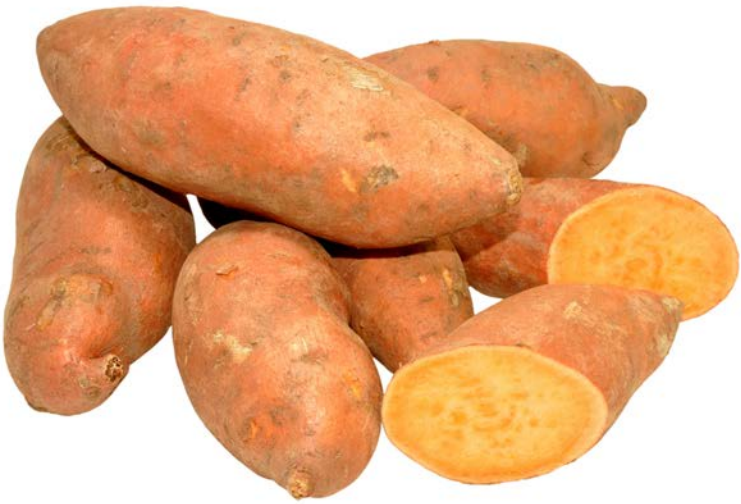
Facing analytical quality.

proof acs

Reference Material
Pesticides incl. polar pesticides in sweet potato
P2619-RMSp



Summary

Reference material P2619-RMSp is validated in ring test P2619-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 P2619-RMSp consists of a homogenate of sweet potatoes (150 g), which is spiked with 9 multi-method pesticides and 9 polar pesticides (see table 1).

The corresponding unspiked homogenate of sweet potatoes (150 g) is available as blank material P2619-BLPa. The blank material contains chlorate, while it is free from incurred residues of all other spiked parameters.

The reference material is validated in ring test P2619-RT with 10 laboratories. The spiked levels as well as the assigned values, which are calculated of the results of the participants of the ring test P2619-RT, are summarised in table 1. The accepted ranges with respect to the comparability ($|z\text{-score}| \leq 2$) are not available for the multi-method pesticides due to the limited number of reported results in P2619-RT.

Table 1. Spiked levels and assigned values

Parameter	Spiked level [mg/kg]	Assigned value [mg/kg]	Total number of results
Alachlor	0.026	-	6
Azoxystrobin	0.12	-	6
Carbendazim	0.065	-	6
Chlorpyrifos	0.022	-	6
Difenoconazole	0.055	-	6
Fludioxonil	0.25	-	6
Metribuzin	0.036	-	6
2-Phenylphenol	0.044	-	6
Thiabendazole	0.16	-	6
Chlorate	incurred	0.0622	10
Perchlorate	0.053	0.0589	10
Ethephon	0.033	0.0313	9
Glyphosate	0.088	0.0803	9
Phosphonic acid	0.13	0.131	9
Chlormequat chloride	0.038	0.0396	7
Mepiquat chloride	0.042	0.0439	7
Cyromazine	0.025	0.0239	8
Maleic hydrazide	0.23	0.230	8