

# Reference Material

## Polar pesticides and bromide in grapes

P2518-RMGr



## Summary

Reference material P2518-RMGr is validated in the ring test P2518-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 P2518-RMGr consists of a homogenate of table grapes (150 g), which is spiked with seven polar pesticides and sodium bromide (see table 1).

The corresponding unspiked homogenate of table grapes (150 g) is available as blank material P2518-BLGr. The blank material is free from incurred residues of all spiked parameters.

The reference material is validated in ring test P2518-RT with 9 laboratories. The spiked levels as well as the assigned values, which are calculated of the results of the participants of the ring test P2518-RT, are summarised in table 1. Assigned values are available of chlorate, perchlorate, ethephon, phosphonic acid, glyphosate, AMPA, and glufosinate.

The assigned value of bromide is not available due to limited number of data reported in P2518-RT. The spiked level as well as an accepted range of 70 to 120 % of the spiked level is considered for evaluation of bromide.

The reference material is spiked with amitrole at a concentration level of 0.045 mg/kg. Amitrole is not included in the specification as none of the labs reported results related to amitrole in P2518-RT.

*Table 1. Spiked levels and assigned values*

Parameter	Spiked level [mg/kg]	Assigned value [mg/kg]	Total number of results
Chlorate	0.13	0.126	8
Perchlorate	0.062	0.0617	8
Ethephon	0.27	0.286	9
Phosphonic acid	0.27	0.265	9
Glyphosate	0.035	0.0345	8
AMPA	0.027	0.0262	8
Glufosinate	0.25	0.228	7
Bromide (inorg.)	2.5	-	4