

Reference Material Honey-Profiling in rapeseed honey

P2528-RMRs



Summary

Reference material P2528-RMRs is validated in method ring test P2528-MRT, which is organised, performed and evaluated according to the requirements of DIN EN ISO/IEC 17043 and the “International Harmonized Protocol”. ISO 13528 is considered during the evaluation of the submitted results and during homogeneity and stability testing. Details related to the applied statistics are summarised in the full specification, which is provided after purchase of the reference material.

Reference material P2528-RMRs consists of 50 g rapeseed honey from Germany, which is not adulterated.

Seven laboratories took part in the method ring test. One laboratory provided two independent results from different spectrometers. Thus, eight different results are considered for each parameter during evaluation. The assigned values, which are calculated of the results of the participants of the method ring tests P2528-MRT, are summarised in table 1.

Of the 36 parameters of the Honey-Profiling method the parameters of the results related to

- the sugars fructose, glucose, and turanose,
- the amino acids alanine and proline, and
- the organic acids acetic acid, lactic acid, formic acid, and succinic acid

were evaluated with respect to the comparability criterion ($|z\text{-score}| \leq 2$).

Table 1. Reference material P2528-RMRs – assigned values

Parameter	Unit	Assigned value	Total number of results
Fructose	g/100 g	39.6	8
Glucose	g/100 g	39.8	8
Turanose	g/100 g	0.851	7
Alanine	mg/kg	6.79	8
Proline	mg/kg	321	8
Acetic acid	mg/kg	17.5	7
Lactic acid	mg/kg	12.5	7
Formic acid	mg/kg	23.6	8
Succinic acid	mg/kg	9.08	8