

Validated Reference Material Pyrrolizidine alkaloids in honey

P2115-RMHo



- Summary -

Please note:

Reference material P2115-RMHo is a validated control material and not a certified reference material. The reference material consists of 120 g of honey, which is spiked with four pyrrolizidine alkaloids and contains incurred residues of three more PAs (see table 1). The corresponding unspiked honey (120 g) is available as blank material P2115-BLHo. The blank material contains incurred residues of four pyrrolizidine alkaloids (incurred in table 1).

The reference material is validated in ring test P2115-RT with 8 laboratories. The spiked levels as well as the assigned values, which are calculated of the results of the participants of the ring test P2115-RT, are summarised in table 1.

Table 1. Spiked levels and assigned values

Parameter	Spiked level [µg/kg]	Assigned value [µg/kg]	Total number of results
Heliosupine	12	-	4
Intermedine	18	16.7	8
Senkirkine	5.0	4.65	8
Usaramine ^{*1, 3}	3.0 + incurred	5.94	8
Europine	incurred	2.33	8
Senecionine	incurred	7.12	8
Seneciophylline	incurred	15.7	8

*1 Usaramine: usaramine and retrorsine are considered for evaluation.

*2 Heliosupine is evaluated with respect to the trueness only due to the limited number of reported results.

*3 The trueness criterion is not applied for evaluation of usaramine. The raw (blank) material contains incurred residues of retrorsine/usaramine and thus the assigned value corresponds to the concentration level of the incurred residues (assigned value: 2.9 µg/kg) plus the spiked concentration (3.0 µg/kg).