

Reference Material Quinolizidine alkaloids in lupin flour

P2309-RMLf



- Summary -

Please note:

Reference material P2309-RMLf is validated in the ring test P2309-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 P2309-RMLf consists of 100 g of a commercially available lupin flour, which contains incurred residues of four quinolizidine alkaloids (see table 1).

The reference material is validated in ring test P2309-RT with 10 laboratories. The assigned values, which are calculated of the results of the participants of the ring test P2309-RT, are summarised in table 1.

Table 1. Quinolizidine alkaloids and assigned values

Parameter	Assigned value [mg/kg]	No. of results
Angustifoline	18.4	10
Sum of lupanine and α -iso-lupanine*	148	10
13- α -OH-lupanine	82.5	10
Multiflorine	10.3	8

* Some of the participants in P2309-RT were not able to separate lupanine from α -iso-lupanine. Consequently, the sum of lupanine and α -iso-lupanine was considered for evaluation.