

Validated Reference Material

Acidic herbicides (free acids, esters and conjugates) in rapeseed oil

P2104-RMRo



- Summary -

Please note:

Reference material P2104-RMRo is a validated control material and not a certified reference material. The reference material consists of 2 x 40 ml of rapeseed oil, which is spiked with free acids, esters and glucosides of acidic herbicides (see table 1). The corresponding unspiked rapeseed oil (2 x 40 ml) is available as blank material P2104-BLRo. The blank material is free from incurred residues of acidic herbicides (not detected, RL: 0.01 mg/kg).

The reference material is validated in ring test P2104-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 P2104-RT, are summarised in table 1.

Table 1. Spiked levels and assigned values

Parameter	Spiked level [mg/kg]	Assigned value [mg/kg]	Total number of results
2,4-D (sum) with hydrolysis	0.080*	0.0737	8
spiked as 2,4-D butyl ester	0.10		
2,4-Dichlorprop (sum) with hydrolysis	0.053*	0.0494	8
spiked as 2,4-dichlorprop glucoside	0.090		
Fluazifop (sum) with hydrolysis	0.12*	0.102	8
spiked as fluazifop-p-butyl	0.14		
Haloxifop (sum) with hydrolysis	0.085*	0.0676	8
spiked as haloxifop-p-methyl ester	0.088		
MCPA (sum) with hydrolysis	0.061*	0.0593	8
spiked as MCPA glucoside	0.11		
Clopyralid without hydrolysis spiked as free acid	0.066	-**	5
Dicamba without hydrolysis spiked as free acid	0.073	-**	5
Triclopyr without hydrolysis spiked as free acid	0.040	-**	6

* Calculated of the concentration level of the respective spiked ester or glucoside.

** Due to the limited number of reported results, the assigned value was not calculated. The results were evaluated with respect to the trueness criterion (recovery of the spiked level) only.