Facing analytical quality.

proof acs

Reference Material
Acidic herbicides
(free acids, esters and conjugates)
in lime
P2208-RMLi

- Summary -

Please note:

Reference material P2208-RMLi is a validated control material and not a certified reference material. The reference material is validated in the ring test P2208-RT, which is organised, performed and evaluated according to the requirements of DIN EN ISO/IEC17043 and the “International Harmonized Protocol”. DIN ISO13528 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 P2208-RMLi consists of 100 g of lime homogenate, which is spiked with free acids, esters and glucosides of acidic herbicides (see table 1). The corresponding unspiked lime homogenate (100 g) is available as blank material P2208-BLLi. The blank material is free from incurred residues of acidic herbicides within the scope of this test (<0.01 mg/kg).

The reference material is validated in ring test P2208-RT with 30 laboratories. The spiked levels as well as the assigned values, which are calculated of the results of the participants of the ring test P2208-RT, are summarised in table 1.

The spiked level related to 2,4-DB is provided for information only. Due to the low performace of the labs in P2208-RT, the parameter is not specified for the reference material.

Table 1. Spiked levels and assigned values

Parameter	Spiked level [mg/kg]	Assigned value [mg/kg]	Total number of results
2,4-D	0.096*	0.0910	29
spiked as 2,4-D butyl ester	0.12		
2,4-DB**	0.045*	-	10
spiked as 2,4-DB ethylhexyl ester	0.065		
2,4-Dichlorprop***	0.067*	-	22
spiked as dichlorprop methylheptyl ester	0.099		
2,4,5-T	0.050*	0.0485	23
spiked as i-octyl ester	0.072		
Dicamba (without hydrolysis)	0.062	0.0609	16
Fluazifop	0.033*	0.0330	29
spiked as fluazifop methyl ester	0.034		
Haloxyfop	0.030*	0.0301	29
spiked as haloxyfop glucoside	0.043		
MCPA	0.077*	0.0845	30
spiked as MCPA glucoside	0.14		

* Calculated of the concentration level of the respective spiked ester or glucoside.
** 2,4-DB was spiked to the material, but the parameter is not specified for the reference material.
*** The comparability criterion was not applicable to 2,4-dichlorprop, thus only the trueness is specified.