

# Reference Material

## Acidic herbicides and ethylene oxide in whole sesame seeds

### P2312-RMSe



- Summary -

Please note:

Reference material P2312-RMSe is a validated control material and not a certified reference material. The reference material is validated in the ring test P2312-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 P2312-RMSe consists of 100 g whole sesame seeds, which are spiked with six acidic herbicides as well as with 2-chloroethanol (see table 1). The corresponding unspiked sesame seeds (100 g, whole seeds) are available as blank material P2312-BLSe. The blank material is free from incurred residues of all spiked parameters.

The reference material is validated in ring test P2312-RT with 10 laboratories. The spiked levels as well as the assigned values, which are calculated of the results of the participants of the ring test P2312-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	0.081*	0.0756	9
spiked as 2,4-D glucoside	0.14		
2,4-DB	0.064*	0.0585	8
spiked as 2,4-DB methyl ester	0.068		
Fluazifop	0.061*	0.0593	9
spiked as fluazifop-P butyl ester	0.072		
Haloxyfop	0.035*	0.0391	9
spiked as haloxyfop ethoxyethyl ester	0.042		
MCPB	0.052*	0.0568	9
spiked as MCPB glucoside	0.089		
Clopyralid (without hydrolysis)	0.11	-	5
Dicamba (without hydrolysis)	0.036	-	4
Ethylene oxide	0.082	0.0565	8
spiked as 2-chloroethanol	0.15		

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