

# Validated Reference Material Acidic herbicides (free acids, esters and conjugates) in courgette

## P2007-RMCo



## - Summary -

Please note:

Reference material P2007-RMCo is a validated control material and not a certified reference material. The reference material consists of 120 g of courgette homogenate, which is spiked with free acids, esters and glucosides of acidic herbicides (see table 1). The corresponding unspiked courgette homogenate (120 g) is available as blank material P2007-BLCo. The blank material is free from incurred residues of acidic herbicides (RL: 0.01 mg/kg).

The reference material is validated in ring test P2007-RT with 17 laboratories. The spiked levels as well as the assigned values, which are calculated of the results of the participants of the ring test P2007-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	0.057*	0.0617	17
spiked as 2,4-D butyl ester	0.071		
2,4-Dichlorprop (sum) with hydrolysis	0.054	0.0585	17
spiked as 2,4-dichlorprop, and 2,4-dichlorprop glucoside	0.027 0.045		
2,4,5-T (sum) with hydrolysis	0.051*	0.0487	17
spiked as 2,4,5-T ethylhexyl ester	0.074		
Fluazifop (sum) with hydrolysis	0.043*	0.0492	17
spiked as fluazifop-p-butyl	0.050		
Fluroxypyr (sum) with hydrolysis	0.031*	0.0337	17
spiked as fluroxypyr 1-methyl-heptyl ester	0.045		
Haloxypop (sum) with hydrolysis	0.039*	0.0380	17
spiked as haloxypop glucoside	0.056		
MCPA (sum) with hydrolysis	0.066*	0.0672	17
spiked as MCPA glucoside	0.12		
2,4-DB without hydrolysis spiked as free acid	0.028	0.0303	16
Dicamba without hydrolysis spiked as free acid	0.098	0.0936	13
Fenoxaprop without hydrolysis spiked as free acid	0.12	0.141	12

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