

# Validated Reference Material Polar pesticides and organotin compounds in infant formula

## P2109-RMIf



### - Summary -

Please note:

Reference material P2109-RMIf is a validated control material and not a certified reference material. The reference material consists of 120 g of infant formula, which is spiked with chlorate, perchlorate, glyphosate, N-acetyl glyphosate, BAC C-8, BAC C-10, BAC C-12, DDAC C-8, DDAC C-10, cyhexatin, fenbutatin oxide, and fentin (see table 1). The corresponding unspiked infant formula (120 g) is available as blank material P2109-BLIf. The blank material is free from incurred residues of glyphosate, N-acetyl glyphosate, BAC C-8, BAC C-10, BAC C-12, DDAC C-8, DDAC C-10, and cyhexatin (all not detected, RL: 0.01 mg/kg), as well as free from fenbutatin oxide, and fentin (both not detected, RL: 0.005 mg/kg), while it contains chlorate and perchlorate at about 0.01 mg/kg.

The reference material is validated in ring test P2109-RT with 14 laboratories. The spiked levels as well as the assigned values, which are calculated of the results of the participants of the ring test P2109-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
Chlorate	0.018*	0.0324	13
Perchlorate	0.032*	0.0484	13
Glyphosate	0.028	0.0298	11
N-Acetyl glyphosate	0.022	0.0234**	6
BAC C-8	0.020	0.0194	12
BAC C-10	0.025	0.0259	12
BAC C-12	0.018	0.0202	12
DDAC C-8	0.016	0.0163	12
DDAC C-10	0.020	0.0234	12
Cyhexatin	0.015	0.0148	9
Fenbutatin oxide	0.021	0.0194	9
Fentin	0.0090	0.00861	10

\* The spiked levels of chlorate and perchlorate are provided for information only. The trueness criterion is not applicable due to levels of chlorate and perchlorate in the raw material.

\*\* The assigned value related to N-acetyl glyphosate is provided for information only due to the limited number of reported results. The evaluation with respect to the comparability criterion is thus not applicable.