

**POSITION PAPER No. 16 - 02****“Challenging Pesticides in MRM“****Version 2016/01/20****Pesticides: Possibly challenging for "Multi-Residue-Method" analyses**

The following list of pesticides is the outcome of a survey within the relana® quality circle. relana® laboratories were asked to comment on possibly challenging pesticides, which might cause analytical problems when applying multi-method-residue analysis.

<b>Pesticides</b>	<b>Status of approval</b>	<b>Residue definition acc. to Reg. (EC) No. 396/2005</b>
<b>2-..., 4-...</b>		
2-Naphthyloxyaceticacid (2-NOA)	/	2-Naphthyloxyaceticacid (2-NOA)
4-Chlorphenoxyaceticacid (4-CPA)	/	4-Chlorphenoxyaceticacid (4-CPA)
<b>A...</b>		
Amitraz	/	Amitraz incl. 2,4-Dimethylanilins
<b>B...</b>		
Benomyl	/	sum of Benomyl and Carbendazim expressed as Carbendazim
Bromoxynil	appr.	Bromoxynil and ist salts
<b>C...</b>		
Captafol	/	Captafol
Captan	appr.	Captan
Chlorothalonil	appr.	Chlorothalonil
Clopyralid	appr.	Clopyralid
Cyhexatin	/	sum of Azocyclotin and Cyhexatin expr. as Cyhexatin
Cyromazin	appr.	Cyromazin
<b>D...</b>		
Daminozide	appr.	sum of Daminozide and 1,1-dimethyl-Hydrazine, expressed as Daminozide
Dinocap	/	sum of dinocap isomers and their corresponding phenols expressed as dinocap
Dithianon	appr.	Dithianon

<b>E...</b>		
Emamectin	appr.	Emamectin benzoate B1a, expressed as emamectin
Ethoxyquin	/	Ethoxyquin
<b>F...</b>		
Fentin	/	Fentin-acetate resp. Fentin-hydroxide
Fluazifop	/	Fluazifop-P-butyl (fluazifop acid (free and conjugate))
Fluazifop-P	appr.	Fluazifop-P-butyl (fluazifop acid (free and conjugate))
Folpet	appr.	Folpet
Formetanate	appr.	Formetanate: Sum of formetanate and its salts expressed as formetanate(hydrochloride)
<b>H...</b>		
Haloxifop	/	Haloxifop including haloxifop-R (Haloxifop-R methyl ester, haloxifop-R and conjugates of haloxifop-R expressed as haloxifop-R) (F) (R)
Haloxifop-P (Haloxifop-R)	appr.	Haloxifop including haloxifop-R (Haloxifop-R methyl ester, haloxifop-R and conjugates of haloxifop-R expressed as haloxifop-R) (F) (R)
<b>I...</b>		
Isoxaflutole	appr.	Isoxaflutole (sum of isoxaflutole and its diketonitrile-metabolite, expressed as isoxaflutole)
<b>O...</b>		
Omethoate	/	sum of dimethoate and omethoate expressed as dimethoate
<b>P...</b>		
Picloram	appr.	Picloram
Prohexadione	appr.	Prohexadione (acid) and its salts expressed as prohexadione-calcium
Propaquizafop	appr.	Propaquizafop
Pymetrozin	appr.	Pymetrozin
Pyrethrins	appr.	Pyrethrins

S...		
S 421	Syn	
Sethoxydim	/	sum of Sethoxydim and Clethodim including degradation products calculated as Sethoxydim
T...		
Tetrahydrophthalimide (THPI)	Met	draft: sum of Captan and THPI, expressed as Captan

Legend:

appr.: approved acc. to Reg. (EC) 1107/2009

/ : not approved acc. to Reg. (EC) 1107/2009

Syn: Synergist (not covered by Reg. (EC) 396/2005)

Met: Metabolite of an active substance

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