

LUFA - ITL Dr.-Hell-Str. 6, 24107 Kiel

Tapvei Estonia OÜ
Paekna küla, Kiili vald
75408 Harjumaa
ESTLAND

Date 08.05.2018

Customer no. 10076953

REPORT 2396810 - 651832

Order **2396810**
Sample no. **651832**
Sample acceptance **20.04.2018**
Date of sampling **16.04.2018**
Sample code **Aspen chips (Populus tremula) Batch: 160418E**
Packaging **plastic**

Unit Result Declaration Substance Method

Pesticides Multi-Residue-Methods (complete list see appendix)

In the range of performed analysis no pesticides were detected above limit of quantification.

Physico-chemical parameters

Nitrite *	mg/kg	<5,0		OM	VDLUFA III, 4.10.1(HV)
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Trace-elements / Heavy metals

Boron (B)	mg/kg	<5,00 ^{m)}		OM	DIN EN 15621 (mod.)
Fluorine, detected as Fluoride	mg/kg	<40		OM	EN 16279
Copper (Cu)	mg/kg	<5,00 ^{m)}		OM	DIN EN 15621
Zinc (Zn)	mg/kg	6,99		OM	DIN EN 15621
Selenium (Se)	mg/kg	<0,10		OM	E DIN EN 17053
Cadmium (Cd)	mg/kg	0,13		OM	E DIN EN 17053
Lead (Pb)	mg/kg	<0,10		OM	E DIN EN 17053
Mercury (Hg)	mg/kg	<0,02		OM	DIN EN 16277 (mod.)
Arsenic (As)	mg/kg	<0,10		OM	E DIN EN 17053

Mycotoxins

Aflatoxine B1	µg/kg	<1,0 ^{wf)}		OM	QMP_504_KI_52_151 : 2017-12 (LC-MSMS)
Aflatoxine B2	µg/kg	<0,5		OM	QMP_504_KI_52_151 : 2017-12 (LC-MSMS)
Aflatoxine G1	µg/kg	<1,0 ^{wf)}		OM	QMP_504_KI_52_151 : 2017-12 (LC-MSMS)
Aflatoxine G2	µg/kg	<1,0 ^{wf)}		OM	QMP_504_KI_52_151 : 2017-12 (LC-MSMS)

Dioxinlike PCB (dl-PCB)

PCB 77	ng/kg	<3,00		OM	DIN EN 16215 (mod.)
PCB 81	ng/kg	<0,20		OM	DIN EN 16215 (mod.)
PCB 105	ng/kg	<50,0		OM	DIN EN 16215 (mod.)
PCB 114	ng/kg	<4,00		OM	DIN EN 16215 (mod.)
PCB 118	ng/kg	<100		OM	DIN EN 16215 (mod.)
PCB 123	ng/kg	<2,0		OM	DIN EN 16215 (mod.)
PCB 126	ng/kg	<0,20		OM	DIN EN 16215 (mod.)
PCB 156	ng/kg	<10,0		OM	DIN EN 16215 (mod.)
PCB 157	ng/kg	<2,0		OM	DIN EN 16215 (mod.)
PCB 167	ng/kg	<5,00		OM	DIN EN 16215 (mod.)
PCB 169	ng/kg	<0,10		OM	DIN EN 16215 (mod.)
PCB 189	ng/kg	<2,0		OM	DIN EN 16215 (mod.)
TEQ-WHO (upper-bound, dl PCB)	ng/kg	0,03^{xx5)}		OM	Calculation WHO 2005

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	Unit	Result Declaration	Substance	Method
Non-dioxinlike PCB (ndI-PCB)				
Sum ndI-PCB (upper-bound)	µg/kg	4,8^{xx5)}		OM calculated
PCB 28	mg/kg	<0,0008		OM DIN EN 12393-2 (mod.) / DIN EN 12393-3 (mod.)
PCB 52	mg/kg	<0,0008		OM DIN EN 12393-2 (mod.) / DIN EN 12393-3 (mod.)
PCB 101	mg/kg	<0,0008		OM DIN EN 12393-2 (mod.) / DIN EN 12393-3 (mod.)
PCB 138	mg/kg	<0,0008		OM DIN EN 12393-2 (mod.) / DIN EN 12393-3 (mod.)
PCB 153	mg/kg	<0,0008		OM DIN EN 12393-2 (mod.) / DIN EN 12393-3 (mod.)
PCB 180	mg/kg	<0,0008		OM DIN EN 12393-2 (mod.) / DIN EN 12393-3 (mod.)

Microbiological examinations

Escherichia coli	cfu/g	<1 (LOD)		OM DIN ISO 16649-2
Enterococcus spp. *	cfu/g	<100 (LOD)		OM DIN EN ISO 7899-2 (mod.)
Aerobic mesophilic bacteria (total plate count)	cfu/g	<100 (LOD)		OM conform VDLUFA III, 28.1.2
Coliform bacteria	cfu/g	<10 (LOD)		OM ISO 4832
Moulds	cfu/g	<100 (LOD)		OM conform VDLUFA III, 28.1.2
Yeasts	cfu/g	<100 (LOD)		OM conform VDLUFA III, 28.1.2
Salmonella spp. in 25g		not detected		OM ISO 6579-1

Other analysis

Clostridium spp., sulfite reducing	cfu/g	<1 (LOD)		OM ISO 15213
Nitrate	mg/kg	<5,0		OM VDLUFA VII, 2.2.2.2(HV) v)

xx5) For each single result below the LOQ, the LOQ was used for the calculation.

m) Due to the disturbing influence of the sample matrix, the limit of detection resp. limit of quantitation was increased.

wf) In the present sample the recovery of one or more internal standards is < 50% but > 10%. Consequently a higher measurement uncertainty is expected.

Explanation: "<" or "n.q." represent the fact that the concentration of the analyte is below the limit of quantification (LOQ).

The sign "<""...(LOD)" or n.d. in column result means, the substance concerned cannot be detected within the limit of detection.

Explanation: OM = on original matter; DM = on dry matter base

v) Forwarded to an accredited laboratory

Subcontractors

Analysed by

(HV) Bay. Hauptversuchsanstalt Bioanalytik, Alte Akademie 10, 85350 Freising

Methods

VDLUFA III, 4.10.1

(HV) Bay. Hauptversuchsanstalt Bioanalytik, Alte Akademie 10, 85350 Freising, for the cited method accredited according to ISO/IEC 17025:2005, certificate of Accreditation: D-PL-14063-01-00

Methods

VDLUFA VII, 2.2.2.2

Remark to Escherichia coli:

After revival step for stressed out bacteria.

Start of testing: 20.04.2018

End of testing: 08.05.2018

The analytical results are only valid for the delivered sample material. A plausibility check is hardly possible for samples of unknown origin. Duplication of this document or of parts of it requires the authorization from laboratory. The test results in this test report are displayed in a simplified manner according to the agreement made with you in writing according to the order confirmation. The display is in accordance with ISO/IEC 17025:2005, paragraph 5.10.1.

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LUFA-ITL GmbH

Dr.-Hell-Str. 6, 24107 Kiel, Germany
www.agrolab.de



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A handwritten signature in black ink, appearing to read 'N. Bodmann', is written over a light grey background.

LUFA - ITL Frau Nora Bodmann, Tel. 0431/1228-317
Customer Relations Management feed

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List of all analyzed pesticides (limit of quantification [mg/kg])

Method: calculated , Unit: mg/kg					
Parameter	Limit of quantification	Parameter	Limit of quantification	Parameter	Limit of quantification
Sum acibenzolar-S-methyl and acibenzolar acid		Sum aldicarb/-sulfon/-sulfoxid		Sum aldrin, dieldrin	
Sum amitraz		Sum bentazone		Sum bifenazate	
Sum captan and THPI		Sum carbofuran, 3-hydroxycarbofuran		Sum chloridazon	
Sum clethodim		Sum cycloxydim		Sum DDT-isomers	
Sum dimethoate+omethoate, expressed as dimethoate		Sum disulfoton		Sum endosulfan-alpha, -beta, -sulfat	
Sum ethofumesate		Sum fenamiphos, -sulphoxide, -sulphone		Sum fenchlorphos	
Sum fenthion		Sum fipronil, -sulfone (MB 46136)		Sum flonicamid	
Sum flufenacet		Sum heptachlor, heptachlorepoxyde		Sum MCPA, MCPB	
Sum metazachlor		Sum methiocarb, -sulfone, -sulfoxide		Sum of cis- and trans-chlordane (F) (R)	
Sum of Folpet and Phthalimid		Sum of malathion and malaoxon		Sum oxydemeton-methyl, demeton-S-methyl-sulfon	
Sum Parathion-methyl		Sum phorate		Sum phosmet and phosmet-oxon	
Sum prochloraz		Sum propachlor		Sum propoxycarbazone	
Sum pyraflufen-ethyl		Sum pyridate		Sum quintozone and pentachloro-aniline	
Sum spirotetramat		Sum tepraloxydim		Sum tolylfluaniid	
Sum triflumizole and FM 6-1		1-naphthylacetamide and 1-naphthylacetic acid			
Method: EN 15662 (mod.) , Unit: mg/kg					
Parameter	Limit of quantification	Parameter	Limit of quantification	Parameter	Limit of quantification
Acephate	0,01	Acetamidiprid	0,01	Acibenzolaracid	0,01
Acibenzolar-S-methyl	0,01	Aclonifen	0,01	Alachlor	0,01
Aldicarb	0,01	Aldicarb-sulfon	0,01	Aldicarb-sulfoxide	0,01
Aldrin	0,005	Ametoctradin	0,01	Ametryn	0,01
Aminocarb	0,01	Amitraz	0,01	Atrazine	0,01
Azaconazole	0,01	Azadirachtin	0,01	Azinphos-ethyl	0,01
Azinphos-methyl	0,01	Azoxystrobin	0,01	Benalaxyle	0,01
Bendiocarb	0,01	Benfluralin	0,01	Bensulfuron-methyl	0,01
Bentazone	0,01	Benthiavalcab-isopropyl	0,01	Benzovindiflupyr	0,01
Bifenazate	0,01	Bifenazate-diazene	0,01	Bifenox	0,01
Bifenthrin	0,01	Biphenyl	0,02	Bitertanol	0,01
Bixafen	0,01	Boscalid	0,01	Bromacil	0,01
Bromidecyclen	0,01	Bromophos-ethyl	0,01	Bromophos-methyl	0,01
Bromopropylate	0,01	Bromoxynil	0,01	Bromuconazole	0,01
Bupirimate	0,01	Buprofezin	0,01	Butafenacil	0,01
Butocarboxim	0,01	Butocarboximsulfoxide	0,01	Butoxycarboxim	0,01
Cadusafos	0,01	Captafol	0,02	Captan	0,01
Carbaryl	0,01	Carbofuran	0,01	Carbophenothion	0,01
Carbophenothion-methyle	0,01	Carbosulfan	0,01	Carboxin	0,01
Chlorantraniliprol	0,01	Chlorbenside	0,01	Chlorbufam	0,01
Chlordane alpha	0,005	Chlordane gamma	0,005	Chlordane oxy	0,005
Chlorfenapyr	0,01	Chlorfenprop-methyle	0,01	Chlorfenson	0,01
Chlorfluazuron	0,01	Chlorflurenol	0,01	Chlorflurenol-methyl	0,01
Chloridazon	0,01	Chlorimuron-ethyl	0,01	Chlormephos	0,01
Chlorobenzilate	0,01	Chloroneb	0,01	Chlorotoluron	0,01
Chlorphenvinphos	0,01	Chlorpropham	0,01	Chlorpropylate	0,01
Chlorpyrifos	0,01	Chlorpyrifos-methyl	0,01	Chlorthal-dimethyl	0,01
Chlorthalonil	0,02	Chlorthion	0,01	Chlorthiophos	0,01
Chlozolinate	0,01	Cinosulfuron	0,01	Clethodim	0,01
Climbazole	0,01	Clodinafop	0,01	Clodinafop-propargyl	0,01
Clofentezin	0,01	Clomazone	0,01	Cloquintocet-mexyl	0,01
Clothianidin	0,01	Coumaphos	0,01	Crimidine	0,01
Cyanazin	0,01	Cyanofenphos	0,01	Cyanophos	0,01
Cyantraniliprol	0,01	Cyazofamid	0,01	Cyclanilid	0,01
Cycloate	0,01	Cycloxydim	0,01	Cyflufenamid	0,01
Cyflumetofen	0,01	Cyfluthrin	0,01	Cyhalofop-butyl	0,01
Cyhalothrine	0,01	Cymoxanil	0,01	Cypermethrin	0,01
Cyproconazole	0,01	Cyprodinil	0,01	Deltamethrin (cis-Deltamethrin)	0,01
Demeton-S-methyl	0,01	Demeton-S-methyl-sulfone	0,01	Desethylatrazine	0,01
Desmedipham	0,01	Desmetryn	0,01	Diazinon	0,01
Dichlobenil	0,01	Dichlofenthione	0,01	Dichlofluaniid	0,01
Dichlorprop	0,01	Dichlorvos	0,01	Diclobutrazole	0,01
Diclofop	0,01	Dicloran	0,01	Dicofol	0,01
Dicrotophos	0,01	Dieldrin	0,005	Diethofencarb	0,01
Diethyltoluamide (DEET)	0,01				

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Method: EN 15662 (mod.) , Unit: mg/kg

Parameter	Limit of quantification	Parameter	Limit of quantification	Parameter	Limit of quantification
		Difenacoum	0,01	Difenoconazole	0,01
Diflubenzuron	0,01	Diflufenican	0,01	Dimethenamide	0,01
Dimethoate	0,01	Dimethomorph	0,01	Dimethylaminosulfotoluidide (DMST)	0,01
Dimoxystrobin	0,01	Diniconazole	0,01	Dinocap	0,01
Dinotefuran	0,01	Dinoterb	0,01	Diphenamid	0,01
Diphenylamine	0,01	Dipropetryn	0,01	Disulfoton	0,01
Disulfoton-sulfon	0,01	Disulfoton-sulfoxide	0,01	Ditalimfos	0,01
Diuron	0,01	DMSA	0,01	Dodemorphan	0,01
Dodine	0,01	Emamectin	0,01	Endosulfan alpha	0,005
Endosulfan beta	0,005	Endosulfansulfat	0,005	Endrin	0,005
EPN	0,01	Epoiconazole	0,01	EPTC	0,01
Etaconazole	0,01	Ethalfuralin	0,01	Ethiofencarb	0,01
Ethiofencarb-sulfon	0,01	Ethiofencarb-sulfoxide	0,01	Ethion	0,01
Ethiprole	0,01	Ethirimol	0,01	Ethofumesate	0,01
Ethoprophos	0,01	Etofenprox	0,01	Ettoxazole	0,01
Etridiazole	0,01	Etrifos	0,01	Famoxadone	0,01
Fenamidone	0,01	Fenamiphos	0,01	Fenamiphos-sulphone	0,01
Fenamiphos-sulphoxide	0,01	Fenarimole	0,01	Fenazaquine	0,01
Fenbuconazole	0,01	Fenchlorphos	0,01	Fenchlorphos-oxon	0,01
Fenfluthrin	0,01	Fenhexamid	0,01	Fenitrothion	0,01
Fenoxaprop	0,01	Fenoxycarb	0,01	Fenpiclonil	0,01
Fenpropathrine	0,01	Fenpropidin	0,01	Fenpropimorph	0,01
Fenpyrazamin	0,01	Fenpyroximate	0,01	Fenson	0,01
Fensulfothion	0,01	Fensulfothion-oxon	0,01	Fensulfothion-oxon-sulfon	0,01
Fensulfothion-sulfon	0,01	Fenthion	0,01	Fenthion-oxone	0,01
Fenthion-oxon-sulfon	0,01	Fenthionoxonsulfoxide	0,01	Fenthion-sulfon	0,01
Fenthion-sulfoxide	0,01	Fenuobucarb	0,01	Fenuron	0,01
Fenvalerate	0,01	Fipronil	0,002	Fipronil-desulfinyl	0,002
Fipronil-sulfid	0,005	Fipronil-sulfon	0,002	Flonicamid	0,01
Fluazifop	0,01	Fluazifop-butyle	0,01	Fluazinam	0,01
Flubendiamid	0,01	Fluchloralin	0,01	Flucythrinat	0,01
Fludioxonil	0,01	Flufenacet	0,01	Flufenacet ESA (ethansulfonic acid)	0,01
Flufenacet OA (Oxalamic Acid)	0,01	Flufenacet-alcohol	0,01	Flufenoxuron	0,01
Flufenzin	0,01	Flumetralin	0,01	Flumioxazin	0,01
Fluometuron	0,01	Fluopicolide	0,01	Fluopyram	0,01
Fluotrimazole	0,01	Fluquinconazole	0,01	Flurochloridone	0,01
Fluroxypyr	0,01	Flurprimidol	0,01	Flusilazole	0,01
Fluthiacet-methyl	0,01	Flutolanil	0,01	Flutriafol	0,01
Fluxapyroxad	0,01	FM 6-1	0,01	Folpet	0,01
Fonofos	0,01	Forchlorfenuron	0,01	Formetanate(hydrochloride)	0,01
Formothion	0,01	Fosthiazat	0,01	Fuberidazole	0,01
Furalaxyl	0,01	Furathiocarb	0,01	Genite	0,01
Halfenprox	0,01	Halofenozid	0,01	Haloxypol	0,01
Haloxypol methyl	0,01	Haloxypol-ethoxy-ethyl	0,01	HCH-alpha	0,005
HCH-beta	0,005	HCH-delta	0,005	HCH-epsilon	0,005
HCH-gamma (Lindane)	0,005	Heptachlor	0,005	Heptachlorepoxyde-cis	0,005
Heptachlorepoxyde-trans	0,005	Heptenophos	0,01	Hexachlorobenzene	0,005
Hexaconazole	0,01	Hexaflumuron	0,01	Hexazinone	0,01
Hexithiazox	0,01	Icaridin (Picaridin)	0,01	Imazalil	0,01
Imazamox	0,02	Imazaquine	0,01	Imazethaypr	0,01
Imibenconazole	0,01	Imidacloprid	0,01	Indoxacarb	0,01
Iodofenphos	0,01	Iodosulfuron-methyl-sodium	0,01	Ioxynil	0,01
Iprobenfos	0,01	Iprodion	0,01	Iprovalicarb	0,01
Isazofos	0,01	Isocarbophos	0,01	Isodrin	0,01
Isofenphos	0,01	Isofenphos-methyl	0,01	Isoprocarb	0,01
Isoprothiolane	0,01	Isoproturon	0,01	Isopyrazam	0,01
isoxaben	0,01	Isxadifen-ethyl	0,01	Isoxathion	0,01
Kresoxim-methyl	0,01	lambda-cyhalothrin	0,01	Landrin (3,4,5-Trimethacarb)	0,01
Lenacil	0,01	Leptophos	0,01	Linuron	0,01
Malaoxone	0,01	Malathion	0,01	Mandestrobin	0,01
Mandipropamid	0,01	MCPA	0,01	MCPB	0,01
Mecarbame	0,01	Mecoprop	0,01	Mefenpyr-diethyl	0,01
Mepanipyrim	0,01	Mepropril	0,01	Meptyldinocap	0,01
Metaflumizone	0,01	Metalaxyl (Sum of Metalaxyl and Metalaxyl-M)	0,01	Metamitron	0,01
Metazachlor	0,01	Metconazole	0,01	Methabenzthiazuron	0,01
methacryfos	0,01	Methamidophos	0,01	Methidathion	0,01

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Method: EN 15662 (mod.) , Unit: mg/kg

Parameter	Limit of quantification	Parameter	Limit of quantification	Parameter	Limit of quantification
Methiocarb	0,01	Methiocarb-sulfon	0,01	Methiocarb-sulfoxid	0,01
Methomyl	0,01	Methoprotryne	0,01	Methoxychlor	0,005
Methoxyfenozide	0,01	Metobromuron	0,01	Metolachlor	0,01
Metolcarb	0,01	Metosulam	0,01	Metoxuron	0,01
Metrafenone	0,01	Metribuzin	0,01	Metsulfurone-methyl	0,01
Mevinphos	0,01	Mirex	0,005	Molinate	0,01
Monocrotophos	0,01	Monolinuron	0,01	Monuron	0,01
Myclobutanil	0,01	Naled	0,01	Napropamide	0,01
Neburon	0,01	Nicosulfuron	0,01	Nitenpyram	0,01
Nitralin	0,01	Nitrapyrin	0,01	Nitrofen	0,005
Nitrothal-isopropyle	0,01	Norflurazone	0,01	Novaluron	0,01
Nuarimol	0,01	N-2,4-Dimethylphenyl-N-methylformamidine	0,01	Octachlordipropylether (S421)	0,01
Oforace	0,01	Omethoate	0,01	o,p-DDD	0,005
o,p-DDE	0,005	o,p-DDT	0,005	Oxadiazon	0,01
Oxadixyle	0,01	Oxamyl	0,01	Oxamyl-oxime	0,01
Oxydemeton-methyl	0,01	Oxyfluorfen	0,01	Paclbutrazol	0,01
Paraoxon-ethyle	0,01	Paraoxon-methyl	0,02	Parathion-ethyl	0,01
Parathion-methyl	0,01	Pebulate	0,01	Penconazol	0,01
Pencycuron	0,01	Pendimethalin	0,01	Pentachloro-aniline	0,01
Pentachloroanisol	0,01	Pentachlorobenzene	0,01	Penthiopyrad	0,01
Permethrin	0,01	Perthane	0,01	Phenkapton	0,01
Phenmedipham	0,01	Phenthoate	0,01	Phorate	0,01
Phorat-oxon	0,01	Phorat-oxon-sulfon	0,01	Phorat-oxon-sulfoxid	0,01
Phorat-sulfon	0,01	Phorat-sulfoxid	0,01	Phosalone	0,01
Phosmet	0,01	Phosmet-oxon	0,01	Phosphamidon	0,01
Phthalimide	0,02	Picolinafen	0,01	Picoxystrobin	0,01
Piperonylbutoxide	0,01	Pirimicarb	0,01	Pirimicarb, Desmethylformamido-	0,01
Pirimicarb-desmethyl	0,01	Pirimiphos-ethyl	0,01	Pirimiphos-methyl	0,01
p,p-DDD	0,005	p,p-DDE	0,005	p,p-DDT	0,005
Prochloraz	0,01	Prochloraz desimidazole-amino (BTS 44595)	0,01	Prochloraz desimidazole-formylamino (BTS 44596)	0,01
Procymidone	0,01	Profenofos	0,01	Profluralin	0,01
Profoxydim	0,01	Promecarb	0,01	Prometryn	0,01
Propachlor	0,01	Propachlor OA (Oxalamic Acid)	0,01	Propamocarb	0,01
Propanil	0,01	Propaquizafop	0,01	Propargite	0,01
Propazine	0,01	Propetamphos	0,01	Propham	0,01
Propiconazole	0,01	Propoxur	0,01	Propoxycarbazon	0,01
Propyzamide	0,01	Proquinazide	0,01	Prosulfocarb	0,01
Prothioconazole (Prothioconazole-desthio)	0,01	Prothiophos	0,01	Pymetrozine	0,01
Pyraclostrobin	0,01	Pyraflufen	0,05	Pyraflufen-ethyl	0,01
Pyrazophos	0,01	Pyrethrins	0,01	Pyridaben	0,01
Pyridalyl	0,01	Pyridaphenthion	0,01	Pyridate	0,01
Pyrifenox	0,01	Pyrimethanile	0,01	Pyrimidifen	0,01
Pyriproxyfen	0,01	Pyroxulam	0,01	Quinalphos	0,01
Quinoclamine	0,02	Quinoxifen	0,01	Quintozene	0,005
Quizalofop, incl. quizalofop-P	0,01	Quizalofop-ethyl	0,01	Resmethrine	0,01
Rotenone	0,01	Sedaxane	0,01	Sethoxydim	0,01
Silafluofen	0,01	Silthiofam	0,01	Simazin	0,01
Spinetoram	0,01	Spinosad	0,01	Spirodiclofen	0,01
Spiromesifen	0,01	Spirotetramat	0,01	Spirotetramat-enol	0,01
Spirotetramat-enol-glucosid	0,01	Spirotetramat-ketohydroxy	0,01	Spirotetramat-monohydroxy	0,01
Spiroxamine	0,01	Sulfentrazone	0,01	Sulfotep	0,01
Sulfoxaflor	0,01	Sulprofos	0,01	Sum carbendazim/benomyl	0,01
tau-Fluvalinate	0,01	Tebuconazole	0,01	Tebufenozide	0,01
Tebufenpyrad	0,01	Tecnazene	0,005	Teflubenzuron	0,01
Tefluthrine	0,01	Tembotrion	0,01	Tepraloxydim	0,01
Terbacil	0,01	Terbufos	0,01	Terbufos-sulfon	0,01
Terbufos-sulfoxide	0,01	Terbumeton	0,01	Terbutryne	0,01
Terbutylazin-desethyle	0,01	Terbutylazine	0,01	Tetrachlorvinphos	0,01
Tetraconazole	0,01	Tetradifon	0,005	Tetrahydrophthalimide (THPI)	0,01
Tetrasul	0,01	TFNA	0,01	TFNG	0,01
Thiabendazole	0,01	Thiacloprid	0,01	Thiamethoxam	0,01
Thiobencarb	0,01	Thiodicarb	0,01	Thiometon	0,01
Thiometon-sulfon	0,01	Thiometon-sulfoxid	0,01	Thiophanat-methyl	0,01
Tolclofos-methyl	0,01	Tolyfluanide	0,01	Tralkoxydim	0,01
Transfluthrine	0,01	Triadimefon	0,01	Triadimenol	0,01
Triallate	0,01	Triasulfuron	0,01	Triazamat	0,01

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Method: EN 15662 (mod.) , Unit: mg/kg					
Parameter	Limit of quantification	Parameter	Limit of quantification	Parameter	Limit of quantification
Triazophos	0,01	Trichlorfon	0,01	Trichloronate	0,01
Triclopyr	0,01	Tricyclazole	0,01	Tridemorph	0,01
Trifloxystrobin	0,01	Triflumizole	0,01	Triflumuron	0,01
Trifluralin	0,01	Triflusulfuron-methyl	0,01	Triforine	0,01
Trinexapac	0,02	Trinexapac-ethyl	0,01	Triticonazole	0,01
Tritosulfuron	0,01	Uniconazole	0,01	Valifenalate	0,01
Vinclozolin	0,01	Zoxamide	0,01	1-Naphthylacetic amide	0,01
2-hydroxypropoxycarbazone	0,01	2-Naphtoxyacetic acid	0,01	2-Phenylphenol	0,01
2,3-Dihydro-3,3-dimethyl-2-oxo-benzofuran-5-yl-met	0,05	2,4-D	0,01	2,4-DB	0,01
2,4-Dimethylphenylformamid	0,01	2,4,5-T	0,01	2,6 Dichlorobenzamid	0,01
3-Chloroaniline	0,01	3-Hydroxy-Carbofuran	0,01	4-Chlorophenoxyacetic acid (4-CPA)	0,01
4,4'-Dibromobenzophenone	0,01	6-hydroxy-bentazone	0,01	8-hydroxy-bentazone	0,01

m) Due to the disturbing influence of the sample matrix, the limit of detection resp. limit of quantitation was increased.
 wf) In the present sample the recovery of one or more internal standards is < 50% but > 10%. Consequently a higher measurement uncertainty is expected.
 v) Forwarded to an accredited laboratory

Bemerkung zu Summe Folpet und Phthalimid: Summe von Folpet und Phthalimid, ausgedrückt als Folpet (R).
 Remark to 1-naphthylacetamide and 1-naphthylacetic acid: Sum of 1-naphthylacetamide and 1-naphthylacetic acid and its salts, expressed as 1-naphthylacetic acid. The sum parameter takes into account the active metabolites, which are detectable safely using the specified method.
 Remark to 2,4-D: Sum of 2,4-D, its salts, its esters and its conjugates, expressed as 2,4-D. (The quantitative determination was carried out after hydrolysis as a total acid.)
 Remark to 2,4-DB: Sum of 2,4-DB, its salts, its esters and its conjugates, expressed as 2,4-DB (R). (The quantitative determination was carried out after hydrolysis as a total acid.)
 Remark to Benalaxyl: Benalaxyl including other mixtures of constituent isomers including benalaxyl-M (sum of isomers).
 Remark to Benthialicarb-isopropyl: Benthialicarb-isopropyl (KIF-230 R-L) and its enantiomer (KIF-230 S-D) and its diastereomers (KIF-230 S-L and KIF-230 R-D), expressed as benthialicarb-isopropyl (A).
 Remark to Bifenthrin: Sum of isomers (F).
 Remark to Bromoxynil: Bromoxynil and its salts, expressed as bromoxynil.
 Remark to Bromuconazole: Sum of diastereoisomers (F).
 Remark to Cyflufenamid: Sum of cyflufenamid (Z-isomer) and its E-isomer.
 Remark to Cyfluthrin: Cyfluthrin including other mixtures of constituent isomers (sum of isomers) (F).
 Remark to Cypermethrin: Cypermethrin including other mixtures of constituent isomers (sum of isomers) (F).
 Remark to Dichlorprop: Sum of dichlorprop (including dichlorprop-P), its salts, esters and conjugates, expressed as dichlorprop. (The quantitative determination was carried out after hydrolysis as a total acid.)
 Remark to Diclofop: Sum diclofop-methyl and diclofop acid expressed as diclofop-methyl. (The quantitative determination was carried out after hydrolysis as a total acid.)
 Remark to Dicofof: Sum of p, p' and o,p' isomers (F).
 Remark to Dimethenamid: Dimethenamid including other mixtures of constituent isomers including dimethenamid-P (sum of isomers).
 Remark to Dimethomorph: Sum of isomers.
 Remark to Diniconazole: Sum of isomers.
 Remark to Dinocap: Sum of dinocap isomers and their corresponding phenols expressed as dinocap.
 Remark to Fenpropidin: Sum of fenpropidin and its salts, expressed as fenpropidin (R) (A).
 Remark to Fenpropimorph: Sum of isomers (F) (R).
 Remark to Fenvalerate: Any ratio of constituent isomers (RR, SS, RS & SR) including esfenvalerate (F) (R).
 Remark to Fluzifop-butyle: The quantitative determination was carried out after hydrolysis as a total acid.
 Remark to Fluzifop: Fluzifop-P (sum of all the constituent isomers of fluzifop, its esters and its conjugates, expressed as fluzifop). (The quantitative determination was carried out after hydrolysis as a total acid.)
 Remark to Fluroxypyr: Sum of fluroxypyr, its salts, its esters, and its conjugates, expressed as fluroxypyr (R) (A). (The quantitative determination was carried out after hydrolysis as a total acid.)
 Remark to Formetanate(hydrochloride): Sum of formetanate and its salts expressed as formetanate(hydrochloride).
 Remark to Haloxyfop-ethoxy-ethyl: The quantitative determination was carried out after hydrolysis as a total acid.
 Remark to Haloxyfop-methyl: The quantitative determination was carried out after hydrolysis as a total acid.
 Remark to Haloxyfop: Sum of haloxyfop, its esters, salts and conjugates expressed as haloxyfop (sum of the R- and S- isomers at any ratio) (F) (R). (The quantitative determination was carried out after hydrolysis as a total acid.)
 Remark to Imazamox: Sum of imazamox and its salts, expressed as imazamox.
 Remark to Indoxacarb: Sum of indoxacarb and its R enantiomer (F).
 Remark to Iodosulfuron-methyl-sodium: Sum of idosulfuron-methyl and its salts, expressed as idosulfuron-methyl.
 Remark to Ioxynil: Sum of Ioxynil, its salts and its esters, expressed as Ioxynil (F). (The quantitative determination was carried out after hydrolysis as a total acid.)
 Remark to MCPA: The quantitative determination was carried out after hydrolysis as a total acid.

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Remark to MCPB: The quantitative determination was carried out after hydrolysis as a total acid.
 Remark to Mecoprop: Sum of mecoprop-p and mecoprop expressed as mecoprop.
 Remark to Meptyldinocap: Sum of 2,4 DNOPC and 2,4 DNOP expressed as meptyldinocap.
 Remark to Metaflumizone: Sum of E- and Z-isomers.
 Remark to Metalaxyl (Sum of metalaxyl and metalaxyl-M): Metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers).
 Remark to Metconazol: Sum of isomers (F).
 Remark to Metolachlor: Metolachlor including other mixtures of constituent isomers including S-metolachlor (sum of isomers).
 Remark to Mevinphos: Sum of E- and Z-isomers.
 Remark to Permethrin: Sum of isomers (F).
 Remark to Propamocarb: Sum of propamocarb and its salts, expressed as propamocarb (R).
 Remark to Propiconazol: Sum of the isomers (F).
 Remark to Prothioconazole (Prothioconazole-desthio): Prothioconazole-desthio (sum of isomers) (F).
 Remark to Resmethrin: Resmethrin including other mixtures of constituent isomers (sum of isomers) (F).
 Remark to Spinosad: Spinosad, sum of spinosyn A and spinosyn D (F).
 Remark to Spiroxamine: Sum of isomers (A) (R).
 Remark to Sulfoxaflor: Sum of isomers.
 Remark to Sum Amitraz: Amitraz including the metabolites containing the 2,4 -dimethylaniline moiety expressed as amitraz. The sum parameter takes into account the active metabolites, which are detectable safely using the specified method.
 Remark to Sum DDT-isomers: Sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT (F).
 Remark to Sum Flufenacet: Sum of all compounds containing the N fluorophenyl-N-isopropyl moiety expressed as flufenacet equivalent.
 Remark to Sum MCPA, MCPB, MCPA, MCPB: MCPA, MCPB including their salts, esters and conjugates expressed as MCPA (F) (R).
 Remark to Sum Spirotetramat: Spirotetramat and its 4 metabolites BY108330-enol, BY108330-ketohydroxy, BY108330-mono-hydroxy, and BY108330 enol-glucoside, expressed as spirotetramat (R).
 Remark to Sum acibenzolar-S-methyl and acibenzolar: Sum of acibenzolar-S-methyl and acibenzolar acid (free and conjugated), expressed as acibenzolar-S-methyl.
 Remark to Sum aldicarb/-sulfon/-sulfoxid: Sum of aldicarb, its sulfoxide and its sulfone, expressed as aldicarb.
 Remark to Sum aldrin, dieldrin: Aldrin and dieldrin combined expressed as dieldrin (F).
 Remark to Sum bentazone: Sum of bentazone, its salts and 6-hydroxy (free and conjugated) and 8-hydroxy bentazone (free and conjugated), expressed as bentazone (R).
 Remark to Sum bifenazate: Sum of bifenazate plus bifenazate-diazeno expressed as bifenazate (F).
 Remark to Sum captan and THPI: Sum of captan and THPI, expressed as captan (R) (A).
 Remark to Sum carbendazim/benomyl: Sum of benomyl and carbendazim expressed as carbendazim (R).
 Remark to Sum carbofuran, 3-hydroxycarbofuran: Sum of carbofuran (including any carbofuran generated from carbosulfan, benfuracarb or furathiocarb) and 3-OH carbofuran expressed as carbofuran (R).
 Remark to Sum chloridazon: Chloridazon (R) (sum of chloridazon and chloridazon-desphenyl, expressed as chloridazon). The sum parameter takes into account the active metabolites, which are detectable safely using the specified method.
 Remark to Sum clethodim: Sum of sethoxydim and clethodim including degradation products calculated as sethoxydim. The sum parameter takes into account the active metabolites, which are detectable safely using the specified method.
 Remark to Sum cycloxydim: Cycloxydim including degradation and reaction products which can be determined as 3-(3-thianyl)glutaric acid S-dioxide (BH 517-TGSO2) and/or 3-hydroxy-3-(3-thianyl)glutaric acid S-dioxide (BH 517-5-OH-TGSO2) or methyl esters thereof, calculated in total as cycloxydim. The sum parameter takes into account the active metabolites, which are detectable safely using the specified method.
 Remark to Sum disulfoton: Sum of disulfoton, disulfoton sulfoxide and disulfoton sulfone expressed as disulfoton (F).
 Remark to Sum endosulfan-alpha, -beta, -sulphate: Sum of alpha- and beta-isomers and endosulfan-sulphate expressed as endosulfan (F).
 Remark to Sum ethofumesate: Sum of ethofumesate, 2-keto-ethofumesate, open-ring-2-keto-ethofumesate and its conjugate, expressed as ethofumesate. The sum parameter takes into account the active metabolites, which are detectable safely using the specified method.
 Remark to Sum fenchlorphos: Sum of fenchlorphos and fenchlorphos oxon expressed as fenchlorphos.
 Remark to Sum fipronil, -sulfone (MB 46136): Sum fipronil + sulfone metabolite (MB46136) expressed as fipronil (F).
 Remark to Sum flonicamid: Sum of flonicamid, TFNA and TFNG expressed as flonicamid (R).
 Remark to Sum heptachlor, heptachlorepoxyde: Sum of heptachlor and heptachlor epoxide expressed as heptachlor (F).
 Remark to Sum malathion and malaoxon: Sum of malathion and malaoxon expressed as malathion.
 Remark to Sum metazachlor: Sum of metabolites 479M04, 479M08, 479M16, expressed as metazachlor (R). The sum parameter takes into account the active metabolites, which are detectable safely using the specified method.
 Remark to Sum methiocarb, -sulfone, -sulfoxide: Sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb.
 Remark to Sum oxydemeton-methyl, demeton-S-methyl-sulfon: Sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl.
 Remark to Sum parathion-methyl: Sum of Parathion-methyl and paraoxon-methyl expressed as Parathion-methyl.
 Remark to Sum phorate: Sum of phorate, its oxygen analogue and their sulfones expressed as phorate.
 Remark to Sum phosmet and phosmet-oxon: Phosmet and phosmet oxon expressed as phosmet (R).
 Remark to Sum prochloraz: Sum of prochloraz and its metabolites containing the 2,4,6-Trichlorophenol moiety expressed as prochloraz.
 Remark to Sum propachlor: Oxalinnic derivate of propachlor, expressed as propachlor.
 Remark to Sum propoxycarbazon: Propoxycarbazon, its salts and 2-hydroxypropoxycarbazon expressed as propoxycarbazon.
 Remark to Sum pyraflufen-ethyl: Pyraflufen-ethyl (A) (Sum of pyraflufen-ethyl and pyraflufen, expressed as pyraflufen-ethyl).

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Remark to Sum pyridate: Sum of pyridate, its hydrolysis product CL 9673 (6-chloro-4-hydroxy-3-phenylpyridazin) and hydrolysable conjugates of CL 9673 expressed as pyridate. The sum parameter takes into account the active metabolites, which are detectable safely using the specified method.

Remark to Sum quintozone and pentachloro-aniline: Sum of quintozone and pentachloro-aniline expressed as quintozone (F).

Remark to Sum tepraloxymid: Sum of tepraloxymid and its metabolites that can be hydrolysed either to the moiety 3-(tetrahydro-pyran-4-yl)-glutaric acid or to the moiety 3-hydroxy-(tetrahydro-pyran-4-yl)-glutaric acid, expressed as tepraloxymid. The sum parameter takes into account the active metabolites, which are detectable safely using the specified method.

Remark to Sum tolylfluanid: Sum of tolylfluanid and dimethylaminosulfotoluidide expressed as tolylfluanid (F) (R).

Remark to Sum triflumizole and FM 6-1: Triflumizole and metabolite FM-6-1(N-(4-chloro-2-trifluoromethylphenyl)-n-propoxyacetamide), expressed as Triflumizole (F).

Remark to Tralkoxydim: Sum of the constituent isomers of tralkoxydim.

Remark to Trinexapac: Sum of trinexapac (acid) and its salts, expressed as trinexapac.

Remark to sum fenamiphos, -sulfoxide, -sulfone: Sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos.

Remark to sum fenthion: Fenthion and its oxygen analogue, their sulfoxides and sulfone expressed as parent (F).

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