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GROSSBRITANNIEN

Date 29.05.2017
Customer no. 10079490

REPORT 1814784 / 2 - 763854 / 2

The slash after the order and/or analysis number corresponds to the current version of the test report. This version replaces all previous versions of this test report.

Order **1814784 / 2 Order-no. 10446**
Sample no. **763854 / 2**
Sample acceptance **19.04.2016**
Date of sampling **no information**
Sample code **reference - CPTUN00014N**
Packaging **plastic bag**

Unit Result Declaration Substance Method

Pesticides analyzed by multimethods (see appendix for list of all analyzed pesticides)

Following pesticides from the list of all analyzed pesticides in appendix had been detected above LOQ:

2-Phenylphenol	mg/kg	0,57		OM	DIN EN 12393-2 / DIN EN 12393-3
Anthrachinone	mg/kg	0,47		OM	DIN EN 12393-2 / DIN EN 12393-3
Cypermethrin	mg/kg	0,035		OM	DIN EN 12393-2 / DIN EN 12393-3
Diphenylamine	mg/kg	0,025		OM	DIN EN 12393-2 / DIN EN 12393-3
Permethrin	mg/kg	0,047		OM	DIN EN 12393-2 / DIN EN 12393-3
Piperonylbutoxide	mg/kg	0,030		OM	DIN EN 12393-2 / DIN EN 12393-3
Propiconazole	mg/kg	0,023		OM	DIN EN 12393-2 / DIN EN 12393-3

Physico-chemical parameters

Nitrate	mg/kg	<25		OM	DIN EN ISO 10304-1 (D 20)
Nitrite	mg/kg	5,3		OM	DIN EN ISO 14673-3

Trace-elements / Heavy metals

Boron	mg/kg	100		OM	DIN EN 15621 (mod.)
Fluorine, detected as Fluoride	mg/kg	<40		OM	EN 16279
Copper (Cu)	mg/kg	31,0		OM	DIN EN 15621
Zinc (Zn)	mg/kg	53,1		OM	DIN EN 15621
Cadmium (Cd)	mg/kg	0,11		OM	E DIN EN 17053
Lead (Pb)	mg/kg	8,69		OM	E DIN EN 17053
Mercury (Hg)	mg/kg	0,05		OM	DIN EN 16277 (mod.)
Arsenic (As)	mg/kg	0,41		OM	E DIN EN 17053

Mycotoxins

Aflatoxine B1	µg/kg	<0,5		OM	in-house method LC/MS/MS
Aflatoxine B2	µg/kg	<0,5		OM	in-house method LC/MS/MS
Aflatoxine G1	µg/kg	<0,5		OM	in-house method LC/MS/MS
Aflatoxine G2	µg/kg	<0,5		OM	in-house method LC/MS/MS

Non-dioxinlike PCB (ndl-PCB)

Sum ndl-PCB (upper-bound)	µg/kg	28,0		OM	calculated
PCB 28	mg/kg	0,005		OM	DIN EN 12393-2 / DIN EN 12393-3
PCB 52	mg/kg	0,003		OM	DIN EN 12393-2 / DIN EN 12393-3
PCB 101	mg/kg	0,004		OM	DIN EN 12393-2 / DIN EN 12393-3
PCB 138	mg/kg	0,005		OM	DIN EN 12393-2 / DIN EN 12393-3
PCB 153	mg/kg	0,006		OM	DIN EN 12393-2 / DIN EN 12393-3
PCB 180	mg/kg	0,005		OM	DIN EN 12393-2 / DIN EN 12393-3

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	Unit	Result	Declaration	Substance	Method
Microbiological examinations					
Escherichia coli	cfu/g	<10	(LOD)	OM	ISO 16649-1
Clostridium spp., sulfite-reducing, MPN	in 1g	2		OM	conform VDLUFA VI, 7.18.4 (mod.)
Total viable count	cfu/g	23000		OM	conform VDLUFA III, 28.1.2
Moulds	cfu/g	<1000	(+)	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

*m) Due to the disturbing influence of the sample matrix, the limit of detection resp. limit of quantitation was increased.
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.
The sign "<....(+)" in column result means, the substance concerned has been qualitatively detected between limit of detection and limit of determination.*

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

Remark to Cypermethrin: Cypermethrin including other mixtures of constituent isomers (sum of isomers) (F).
Remark to Permethrin: Sum of isomers (F).

Start of testing: 20.04.2016
End of testing: 03.05.2016

*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.*



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Kundenbetreuung Futtermittel**

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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 aldrin, dieldrin		Sum alpha-, beta-, delta-, epsilon-HCH		Sum DDT-isomers	
Sum endosulfan-alpha, -beta, -sulfat		Sum heptachlor, heptachlorepoxyde		Sum of malathion and malaoxon	
Sum of triadimefon and triadimenol		Sum quintozene and pentachloro-aniline		Total Chlordane	
Method: DIN EN 12393-2 / DIN EN 12393-3 , Unit: mg/kg					
Parameter	Limit of quantification	Parameter	Limit of quantification	Parameter	Limit of quantification
Alachlor	0,02	Aldrin	0,005	Ametryn	0,01
Anthracinone	0,01	Atrazine	0,01	Azinphos-ethyl	0,01
Azinphos-methyl	0,01	Azoxystrobin	0,01	Benalaxyle	0,01
Benfluralin	0,01	Bifenox	0,01	Bifenthrin	0,01
Biphenyl (Diphenyl)	0,01	Bitertanol	0,01	Boscalid	0,01
Bromacil	0,01	Bromfenvinfos	0,01	Bromophos-ethyl	0,01
Bromophos-methyl	0,01	Bromopropylate	0,01	Bupirimate	0,01
Buprofezin	0,01	Cadusafos	0,01	Captafol	0,05
Captan	0,02	Carbophenothion	0,01	Carbosulfan	0,01
Carfentrazone-ethyl	0,01	Chinomethionate	0,01	Chlordane alpha	0,005
Chlordane gamma	0,005	Chlordane oxy	0,005	Chlorfenson	0,01
Chloridazon	0,05	Chlormephos	0,01	Chlorobenzilate	0,01
Chlorobuphame	0,02	Chloroneb	0,01	Chloroxuron	0,01
Chlorphenvinphos	0,01	Chlorpropham	0,02	Chlorpyrifos	0,01
Chlorpyrifos-methyl	0,01	Chlorthalonil	0,01	Chlorthion	0,01
Chlorthiophos	0,01	Chlozolinate	0,01	cis-Nonachlor	0,01
Coumaphos	0,01	Cyanazin	0,01	Cyanofenphos	0,01
Cyfluthrin	0,01	Cypermethrin	0,01	Cyproconazole	0,01
Cyprodinil	0,01	Deltamethrin	0,01	Demeton-S-methyl	0,01
Demeton-S-methylsulfon	0,01	Desethylatrazine	0,01	Desisopropylatrazine	0,01
Desmetryn	0,01	Diallat	0,02	Diazinon	0,01
Dichlobenil	0,01	Dichlofenthione	0,01	Dichlofluanid	0,01
Dichlorvos	0,01	Diclobutrazole	0,01	Dicloran	0,01
Dicofof	0,02	Dieldrin	0,005	Difenoconazole	0,01
Diflufenican	0,01	Dimethachloro	0,01	Dimethenamide	0,01
Dimethoate	0,01	Dimethomorph	0,01	Diniconazole	0,01
Dioxathion	0,01	Diphenylamine	0,01	Disulfoton	0,01
Ditalimfos	0,01	Edifenphos	0,01	Endosulfan alpha	0,005
Endosulfan beta	0,005	Endosulfansulfat	0,005	Endrin	0,005
EPN	0,01	Ethion	0,01	Ethoprophos	0,01
Etrimefos	0,01	Famoxadone	0,01	Famphur	0,01
Fenarimole	0,01	Fenchlorphos	0,01	Fenhexamid	0,01
Fenitrothion	0,01	Fenpropathrine	0,01	Fenpropimorph	0,01
Fenthion	0,01	Fipronil	0,01	Flucythrinate	0,01
Fludioxonil	0,01	Flufenacet	0,01	Flusilazole	0,01
Flutriafof	0,01	Folpet	0,01	Fonofos	0,01
Formothion	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
Hexazinone	0,01	Iprodion	0,01	Isodrin	0,01
Isofenphos	0,01	Kresoxim-methyle	0,01	lambda-Cyhalothrine	0,01
Leptophos	0,01	Malaoxone	0,01	Malathion	0,01
Mecarbame	0,01	Metalaxyl (Sum of Metalaxyl and Metalaxyl-M)	0,01	Metazachlor	0,01
Metconazole	0,01	Methamidophos	0,02	Methidathion	0,01
Methiocarb	0,01	Methoxychlor	0,005	Metolachlor	0,01
Metribuzin	0,01	Mevinphos	0,01	Mirex	0,005
Myclobutanil	0,01	Nitrofen	0,005	Nitrothal-isopropyle	0,01
o,p-DDD	0,005	o,p-DDE	0,005	o,p-DDT	0,005
Oxadixyle	0,01	Paclbutrazol	0,01	Paraoxon-ethyle	0,01
Paraoxon-methyl	0,01	Parathion-ethyl	0,01	Parathion-methyl	0,01
Penconazol	0,01	Pendimethalin	0,01	Pentachloro-aniline	0,01
Pentachlorobenzene	0,005	Permethrin	0,01	Phorate	0,01
Phosalone	0,01	Phosmet	0,01	Phosphamidon	0,01
Piperonylbutoxide	0,01	Piperophos	0,01	Pirimicarb	0,01
Pirimiphos-ethyl	0,01	Pirimiphos-methyl	0,01	p,p-DDD	0,005
p,p-DDE	0,01	p,p-DDT	0,005	Procymidone	0,01

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Method: DIN EN 12393-2 / DIN EN 12393-3 , Unit: mg/kg					
Parameter	Limit of Parameter quantification	Parameter	Limit of Parameter quantification	Parameter	Limit of Parameter quantification
Profenofos	0,01	Prometryn	0,01	Propachlor	0,01
Propargite	0,02	Propazine	0,01	Propetamphos	0,01
Propham	0,01	Propiconazole	0,01	Propoxur	0,01
Propyzamide	0,01	Prosulfocarb	0,01	Prothiophos	0,01
Pyrazophos	0,01	Pyrethrins	0,02	Pyridaphenthion	0,01
Pyrifenox	0,01	Pyrimethanile	0,01	Quinalphos	0,01
Quintozene	0,005	Resmethrine	0,01	Silthiopham	0,01
Simazin	0,01	Sulfotep	0,01	tau-Fluvalinate	0,01
Tebuconazole	0,01	Tebufenpyrad	0,01	Tecnazene	0,005
Tefluthrine	0,01	Terbufos	0,01	Terbutryne	0,01
Terbutylazine	0,01	Tetrachlorvinphos	0,01	Tetradifon	0,005
Tetramethrine	0,01	Thiometon	0,01	Tolclofos-methyl	0,01
Tolyfluanide	0,01	trans-Nonachlor	0,01	Triadimefon	0,01
Triadimenol	0,01	Triallate	0,01	Triazophos	0,01
Trichlorfon	0,01	Trichloronate	0,01	Trifluralin	0,01
Vinclozolin	0,01	2-Phenylphenol	0,01		

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

- 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 DDT-isomers: Sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT (F).
- Remark to Dicofol: Sum of p, p' and o,p' isomers (F).
- Remark to Sum quintozene and pentachloro-aniline: Sum of quintozene and pentachloro-aniline expressed as quintozene (F).
- Remark to Sum aldrin, dieldrin: Aldrin and dieldrin combined expressed as dieldrin (F).
- Remark to Sum alpha-,beta-,delta-epsilon-HCH: Hexachlorocyclohexane (HCH), sum of isomers, except the gamma isomer.
- Remark to Sum heptachlor, heptachlor epoxide: Sum of heptachlor and heptachlor epoxide expressed as heptachlor (F).
- Remark to Sum malathion and malaaxon: Sum of malathion and malaaxon expressed as malathion.
- Remark to Permethrin: Sum of isomers (F).

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