

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

Datesand Ltd
PO Box 45
M11 1XD Manchester
GROSSBRITANNIEN

Date 27.10.2016
Customer no. 10079490

REPORT 1919616 - 110631

Order **1919616 Order-no. 11039**
Sample no. **110631**
Sample acceptance **11.10.2016**
Date of sampling **no information**
Sample code **reference - SIZNEST000150**
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:

Pesticide	Unit	Result	Declaration	Substance	Method
Cypermethrin	mg/kg	0,014		OM	DIN EN 12393 (mod.)
Pendimethalin	mg/kg	0,011		OM	DIN EN 12393 (mod.)
Piperonylbutoxide	mg/kg	0,028		OM	DIN EN 12393 (mod.)
2-Phenylphenol	mg/kg	0,11		OM	DIN EN 12393 (mod.)

Physico-chemical parameters

Parameter	Unit	Result	Declaration	Substance	Method
Nitrate	mg/kg	<25		OM	§64 LFGB L 26.00-1
Nitrite	mg/kg	<1,0		OM	VDLUFA III, 4.10.1

Trace-elements / Heavy metals

Element	Unit	Result	Declaration	Substance	Method
Boron	mg/kg	7,33		OM	DIN EN 15621 (mod.)
Fluorine, detected as Fluoride	mg/kg	<40		OM	EN 16279
Copper (Cu)	mg/kg	19,8		OM	DIN EN 15621
Zinc (Zn)	mg/kg	33,3		OM	DIN EN 15621
Cadmium (Cd)	mg/kg	0,08		OM	DIN EN 15763
Lead (Pb)	mg/kg	4,62		OM	DIN EN 15763
Mercury (Hg)	mg/kg	0,03		OM	DIN EN 16277
Arsenic (As)	mg/kg	0,16		OM	DIN EN 15763

Mycotoxins

Mycotoxin	Unit	Result	Declaration	Substance	Method
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)

PCB	Unit	Result	Declaration	Substance	Method
Sum ndl-PCB (upper-bound)	µg/kg	5,0 ^(x5)		OM	calculated
PCB 28	mg/kg	<0,0008		OM	DIN EN 12393 (mod.)
PCB 52	mg/kg	<0,0008		OM	DIN EN 12393 (mod.)
PCB 101	mg/kg	<0,0008		OM	DIN EN 12393 (mod.)
PCB 138	mg/kg	0,001		OM	DIN EN 12393 (mod.)
PCB 153	mg/kg	0,000830		OM	DIN EN 12393 (mod.)
PCB 180	mg/kg	<0,0008		OM	DIN EN 12393 (mod.)

Microbiological examinations

Microorganism	Unit	Result	Declaration	Substance	Method
Escherichia coli	cfu/g	<10 (LOD)		OM	ISO 16649-1

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	Unit	Result Declaration	Substance	Method
Clostridium spp., sulfite-reducing, MPN	in 1g	<2	OM	conform VDLUFA VI, 7.18.4 (mod.)
Total viable count	cfu/g	3700	OM	conform VDLUFA III, 28.1.2
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

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.

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 can not be detected within the limit of detection.

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



LUFA - ITL Herr Dr. Hubert Wehage, Tel. 0431/1228-220

Customer Relations Management feed

Start of testing: 11.10.2016

End of testing: 26.10.2016

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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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 alpha-, beta-, delta-, epsilon-HCH		sum DDT-isomers		Sum Endosulfan-alpha-, -beta-, -sulfat	
Sum of malathion and malaoxon		Sum of Triadimefon and Triadimenol		Sum quintozene and pentachloro-aniline	
Total Aldrine, Dieldrine		Total Chlordane		Total Heptachlore, Heptachlorepoixide	
Method: DIN EN 12393 (mod.) , Unit: mg/kg					
Parameter	Limit of quantification	Parameter	Limit of quantification	Parameter	Limit of quantification
Acephate	0,01	Alachlor	0,02	Aldrin	0,005
Ametryn	0,01	Amitraz	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	Bromfeninfos	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	Carbaryl	0,05 ^m
Carbofuran	0,01	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	0,01	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
Cyfluthrine	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
Dicofole	0,02	Dicrotophos	0,01	Dieldrin	0,005
Diethofencarb	0,01	Difenoconazole	0,01	Diflufenican	0,01
Dimethachloro	0,01	Dimethenamide	0,01	Dimethoate	0,01
Dimethomorph	0,01	Diniconazole	0,01	Dinoseb	0,02
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	0,02 ^m	Ethoprophos	0,01
Etrifos	0,01	Famoxadone	0,01	Famphur	0,01
Fenarimole	0,01	Fenchlorphos	0,01	Fenhexamid	0,01
Fenitrothion	0,01	Fenoxycarb	0,01	Fenpropathrine	0,01
Fenpropidin	0,01	Fenpropimorph	0,01	Fenthion	0,01
Fenvalerat / Esfenvalerat (sum of RR- / SS-Isomere)	0,01	Fenvalerat / Esfenvalerat (sum of RS- / SR-Isomere)	0,01	Fipronil	0,01
Flucythrinat	0,01	Fludioxonil	0,01	Flufenacet	0,01
Flusilazole	0,01	Flutriafol	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 (Lindan)	0,005	Heptachlor	0,005	Heptachlorepoixide-cis	0,005
Heptachlorepoixide-trans	0,005	Heptenophos	0,01	Hexachlorobenzene	0,005
Hexaconazole	0,01	Hexazinone	0,01	Imazalil	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	Metamitron	0,01	Metazachlor	0,01
Metconazole	0,01	Methabenzthiazuron	0,02	Methamidophos	0,02
Methidathion	0,01	Methiocarb	0,01	Methomyl	0,05
Methoxychlor	0,005	Metolachlor	0,01	Metribuzin	0,01
Mevinphos	0,01	Mirex	0,005	Monocrotophos	0,01
Monolinuron	0,01	Myclobutanil	0,01	Nitrofen	0,005
Nitrothal-isopropyle	0,01	Omethoate	0,01	o,p-DDD	0,005
o,p-DDE	0,005	o,p-DDT	0,005	Oxadixyle	0,01
Oxydemeton-methyle	0,02	Pacllobutrazol	0,01	Paraoxon-ethyl	0,01
Paraoxon-methyl	0,01	Parathion-ethyl	0,01	Parathion-methyl	0,01

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Penconazol	0,01	Pendimethalin	0,01	Pentachloroanilin	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	Prochloraz	0,02
Procymidone	0,01	Profenofos	0,01	Prometryn	0,01
Propachlor	0,01	Propaquizafop	0,1	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
Spiroxamin	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	Thiabendazole	0,01	Thiometon	0,01
Tolclofos-methyl	0,01	Tolyfluamide	0,01	trans-Nonachlor	0,01
Triadimefon	0,01	Triadimenol	0,01	Triallate	0,01
Triazophos	0,01	Trichlorfone	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.