Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

ICAL ID:
Sample: CA240905-014-017

STRAIN: Grapefruit OG
Category: Concentrates & Extracts
Type: Other

Lic. #

Batch#:
Batch Size Collected:
Total Batch Size:
Collected: 09/13/2024; Received: 09/13/2024
Completed: 09/13/2024

Moisture	Total THC	Total CBD	Total Cannabinoids	Sum of Cannabinoids	Total Terpenes
NT	**69.45%**	**0.11%**	**73.42%**	**83.50%**	**77.578 mg/g**
Water Activity					
NT					

Summary	SOP Used	Date Tested	
Batch			Pass
Cannabinoids	POT-PREP-001	09/10/2024	Complete
Terpenes	TERP-PREP-001	09/10/2024	Complete
Pesticides	PESTMYCO-LC-PREP-001 / PEST-GC-PREP-001	09/10/2024	Pass

Cannabinoid Profile

Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g
THCa	0.3680	0.0924	77.43	774.3
Δ9-THC	0.3680	0.1024	0.28	2.8
Δ8-THC	0.3680	0.0506	ND	ND
THCV	0.3680	0.0423	ND	ND
CBDa	0.3680	0.0951	0.12	1.2
CBD	0.3680	0.0815	ND	ND
CBDV	0.3680	0.0421	ND	ND
CBC	0.4549	0.1516	ND	ND

Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g
CBGa	0.3965	0.1322	4.40	44.0
CBG	0.3920	0.1307	ND	ND
CBN	0.3680	0.0780	ND	ND
Total THC			**69.45**	**694.52**
Total CBD			**0.11**	**1.08**
Total Cannabinoids			**73.42**	**734.22**
Sum of Cannabinoids			**83.50**	**835.02**

Total THC=THCa * 0.877 + d9-THC + d8-THC;Total CBD = CBDa * 0.877 + CBD. Total Cannabinoids=(Acidic Cannabinoids)*0.877+Non-acidic Cannabinoids; Sum of Cannabinoids=Acidic Cannabinoids+Non- acidic Cannabinoids. LOD= Limit of Detection, LOQ= Limit of Quantitation, ND= Not Detected, NR= Not Reported. Potency is reported on a dry weight basis. Instrumentation and analysis SOPs used: Cannabinoids:UHPLC-DAD(POT-INST-005),Moisture:Moisture Analyzer(MOISTURE-001),Water Activity:Water Activity Meter(WA-INST-002), Foreign Material:Microscope(FOREIGN-001). Density measured at 19-24 °C, Water Activity measured at 0-90% RH. All QA submitted by the client, All CA State Compliance sampled using SAMPL-SOP-001.

Terpene Profile

Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g
β-Caryophyllene	0.684	0.228	3.1184	31.184
δ-Limonene	0.306	0.053	1.4617	14.617
α-Humulene	0.151	0.032	1.0498	10.498
β-Myrcene	0.153	0.017	0.5347	5.347
α-Bisabolol	0.162	0.054	0.3670	3.670
α-Pinene	0.151	0.028	0.2717	2.717
β-Pinene	0.306	0.020	0.2646	2.646
(-)-Guaiol	0.154	0.033	0.2207	2.207
Linalool	0.154	0.030	0.1898	1.898
Fenchol	0.152	0.029	0.1055	1.055
α-Terpineol	0.154	0.049	0.1014	1.014
Camphene	0.151	0.009	0.0330	0.330
Borneol	0.154	0.027	0.0220	0.220
Terpinolene	0.154	0.014	0.0175	0.175
α-Cedrene	0.151	0.029	ND	ND
α-Terpinene	0.151	0.045	ND	ND
β-Eudesmol	0.192	0.064	ND	ND

Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g
Camphor	0.371	0.124	ND	ND
Caryophyllene Oxide	0.602	0.129	ND	ND
Cedrol	0.151	0.039	ND	ND
cis-Nerolidol	0.264	0.088	ND	ND
Citronellol	0.598	0.138	ND	ND
δ-3-Carene	0.306	0.030	ND	ND
Eucalyptol	0.221	0.074	ND	ND
Fenchone	0.151	0.010	<LOQ	<LOQ
γ-Terpinene	0.152	0.033	ND	ND
Geraniol	0.609	0.138	ND	ND
Geranyl Acetate	0.151	0.020	ND	ND
Isoborneol	0.151	0.022	ND	ND
Menthol	0.170	0.057	ND	ND
Pulegone	0.178	0.059	ND	ND
p-Cymene	1.068	0.356	ND	ND
trans-Nerolidol	0.230	0.077	ND	ND
Total			**7.7578**	**77.578**

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP TERP-INST-003.

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Lab Director, Managing Partner
09/13/2024

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Residual Solvent Analysis

Category 1	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status

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Heavy Metal Screening

	LOQ	LOD	Limit	Status

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: ICP-MS; samples analyzed according to SOP HM-INST-003.

Microbiological Screening

	Limit	Result	Status

ND=Not Detected. Analytical instrumentation used:qPCR; samples analyzed according to SOP MICRO-INST-001.

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Chemical Residue Screening

Category 1		LOQ	LOD	Status
	µg/g	µg/g	µg/g	
Aldicarb	ND	0.030	0.008	Pass
Carbofuran	ND	0.030	0.005	Pass
Chlordane	ND	0.075	0.025	Pass
Chlorfenapyr	ND	0.075	0.025	Pass
Chlorpyrifos	ND	0.046	0.015	Pass
Coumaphos	ND	0.030	0.004	Pass
Daminozide	ND	0.053	0.018	Pass
Dichlorvos	ND	0.055	0.018	Pass
Dimethoate	ND	0.030	0.006	Pass
Ethoprophos	ND	0.030	0.006	Pass
Etofenprox	ND	0.030	0.004	Pass
Fenoxycarb	ND	0.030	0.004	Pass
Fipronil	ND	0.050	0.017	Pass
Imazalil	ND	0.030	0.009	Pass
Methiocarb	ND	0.030	0.002	Pass
Mevinphos	ND	0.030	0.008	Pass
Paclobutrazol	ND	0.030	0.009	Pass
Parathion Methyl	ND	0.024	0.008	Pass
Propoxur	ND	0.030	0.008	Pass
Spiroxamine	ND	0.030	0.006	Pass
Thiacloprid	ND	0.030	0.005	Pass

Mycotoxins	LOQ	LOD	Limit	Status

Category 2		LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g	
Abamectin	ND	0.099	0.033	0.1	Pass
Acephate	ND	0.030	0.007	0.1	Pass
Acequinocyl	ND	0.046	0.015	0.1	Pass
Acetamiprid	ND	0.030	0.005	0.1	Pass
Azoxystrobin	ND	0.030	0.005	0.1	Pass
Bifenazate	ND	0.030	0.007	0.1	Pass
Bifenthrin	ND	0.030	0.004	3	Pass
Boscalid	ND	0.030	0.008	0.1	Pass
Captan	ND	0.358	0.120	0.7	Pass
Carbaryl	ND	0.030	0.006	0.5	Pass
Chlorantraniliprole	ND	0.030	0.009	10	Pass
Clofentezine	ND	0.030	0.002	0.1	Pass
Cyfluthrin	ND	0.056	0.019	2	Pass
Cypermethrin	ND	0.181	0.060	1	Pass
Diazinon	ND	0.030	0.005	0.1	Pass
Dimethomorph	ND	0.030	0.005	2	Pass
Etoxazole	ND	0.030	0.004	0.1	Pass
Fenhexamid	ND	0.034	0.011	0.1	Pass
Fenpyroximate	ND	0.030	0.004	0.1	Pass
Flonicamid	ND	0.035	0.012	0.1	Pass
Fludioxonil	ND	0.036	0.012	0.1	Pass
Hexythiazox	ND	0.030	0.001	0.1	Pass
Imidacloprid	ND	0.033	0.011	5	Pass

Category 2		LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g	
Kresoxim Methyl	ND	0.030	0.007	0.1	Pass
Malathion	<LOQ	0.030	0.003	0.5	Pass
Metalaxyl	ND	0.030	0.005	2	Pass
Methomyl	ND	0.030	0.009	1	Pass
Myclobutanil	ND	0.030	0.007	0.1	Pass
Naled	ND	0.030	0.008	0.1	Pass
Oxamyl	ND	0.030	0.007	0.5	Pass
Pentachloronitrobenzene	ND	0.054	0.018	0.1	Pass
Permethrin	ND	0.030	0.002	0.5	Pass
Phosmet	ND	0.030	0.005	0.1	Pass
Piperonyl Butoxide	ND	0.030	0.003	3	Pass
Prallethrin	ND	0.071	0.023	0.1	Pass
Propiconazole	ND	0.030	0.009	0.1	Pass
Pyrethrins	ND	0.030	0.003	0.5	Pass
Pyridaben	ND	0.030	0.002	0.1	Pass
Spinetoram	ND	0.030	0.001	0.1	Pass
Spinosad	ND	0.030	0.001	0.1	Pass
Spiromesifen	ND	0.030	0.009	0.1	Pass
Spirotetramat	ND	0.030	0.008	0.1	Pass
Tebuconazole	ND	0.030	0.006	0.1	Pass
Thiamethoxam	ND	0.030	0.008	5	Pass
Trifloxystrobin	ND	0.030	0.003	0.1	Pass

Other Analyte(s):

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Chemical Residue Screening

Summary of Detected Chemical Residues

<0.061 ppm p,p'-DDE

This Summary will only include the additional chemical residues not found on the standard California cannabis pesticide list. No Pass/Fail certification for any residue found to be present will be provided for any chemical residue on this list.

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Chemical Residue Screening

		LOQ	LOD
	µg/g	µg/g	µg/g
2-Phenylphenol	ND	0.057	0.019
2,3,5,6-Tetrachloroaniline	ND	1.500	0.500
2,6-Dichlorobenzonitrile	ND	0.034	0.011
3,4-Dichloroaniline	ND	0.07	0.023
4,4'-Dichlorobenzophenone	ND	0.315	0.105
4,4'-Methoxychlor olefin	ND	0.065	0.022
Acetochlor	ND	0.064	0.021
Acibenzolar-S-methyl	ND	0.400	0.100
Alachlor	ND	0.088	0.029
Alanycarb	ND	0.300	0.100
Aldicarb sulfone	ND	0.200	0.050
Aldicarb sulfoxide	ND	0.200	0.050
Aldrin	ND	0.100	0.033
Allethrin	ND	0.030	0.015
Allidochlor	ND	0.073	0.024
alpha-BHC	ND	0.053	0.018
Ametryn	ND	0.100	0.030
Aminocarb	ND	0.040	0.010
Amitraz	ND	0.300	0.100
Anthraquinone	ND	0.060	0.020
Atrazine	ND	0.005	0.005
Azadirachtin	ND	0.050	0.030
Benalaxyl	ND	0.400	0.100
Bendiocarb	ND	0.040	0.010
Benfluralin	ND	0.060	0.020
Benfuracarb	ND	0.300	0.100
Benzovindiflupyr	ND	0.005	0.005
Benzoximate	ND	0.200	0.050
beta-BHC	ND	0.067	0.022
Biphenyl	ND	0.083	0.028
Bitertanol	ND	0.240	0.060
Bromophos methyl	ND	0.066	0.022
Bromophos-ethyl	ND	0.085	0.028
Bromopropylate	ND	0.061	0.020
Bromuconazole	ND	0.200	0.050
Bupirimate	ND	0.240	0.060
Buprofezin	ND	0.030	0.015
Butafenacil	ND	0.120	0.030
Butocarboxim	ND	4	1
Butoxycarboxim	ND	0.040	0.010
Carbendazim	ND	0.040	0.010
Carbetamide	ND	0.040	0.010
Carbofuran-3-hydroxy	ND	0.040	0.010
Carbophenothion	ND	0.046	0.015
Carboxin	ND	0.20	0.050
Carfentrazone-ethyl	ND	0.095	0.032

		LOQ	LOD
	µg/g	µg/g	µg/g
Chlorbenside	ND	0.095	0.032
Chlorfenson	ND	0.038	0.013
Chlorfluazuron	ND	0.064	0.021
Chlorobenzilate	ND	0.064	0.021
Chloroneb	ND	0.044	0.015
Chlorothalonil	ND	0.032	0.011
Chlorotoluron	ND	0.200	0.050
Chloroxuron	ND	0.063	0.021
Chlorpropham	ND	0.063	0.021
Chlorpyrifos-methyl	ND	0.070	0.023
Chlorthal-dimethyl	ND	0.059	0.020
Chlorthiophos 1	ND	0.101	0.034
Chlorthiophos 2	ND	0.100	0.033
Chlorthiophos 3	ND	0.045	0.015
Chlozolinate	ND	0.103	0.034
cis-Diallate	ND	0.098	0.033
Clethodim	ND	0.200	0.050
Clomazone	ND	0.042	0.014
Clothianidin	ND	0.010	0.005
Cyantraniliprole	ND	0.010	0.005
Cyazofamid	ND	0.400	0.100
Cycloate	ND	0.062	0.021
Cycluron	ND	0.040	0.010
Cyhalothrin	ND	0.050	0.030
Cymoxanil	ND	0.400	0.100
Cyproconazole	ND	4	1
Cyprodinil	ND	0.010	0.005
Cyromazine	ND	0.200	0.050
delta-BHC	ND	0.072	0.024
deltamethrin	ND	0.050	0.025
Desmedipham	ND	0.040	0.010
Dichlofluanid	ND	0.074	0.025
Diclobutrazol	ND	0.400	0.100
Dicloran	ND	0.086	0.029
Dicrotophos	ND	0.100	0.025
Dieldrin	ND	0.045	0.015
Diethofencarb	ND	0.040	0.010
Difenoconazole	ND	0.040	0.010
Diflubenzuron	ND	0.200	0.050
Dimethachlor	ND	0.094	0.031
Dimoxystrobin	ND	0.040	0.010
Diniconazole	ND	0.400	0.100
Dinotefuran	ND	0.200	0.050
Dioxacarb	ND	0.100	0.025
Diphenamid	ND	0.070	0.023
Diphenylamine	ND	0.066	0.022

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Chemical Residue Screening

		LOQ	LOD
	µg/g	µg/g	µg/g
Disulfoton	ND	0.070	0.023
Diuron	ND	0.010	0.005
Dodemorph	ND	0.020	0.010
Doramectin	ND	0.100	0.025
Endosulfan ether	ND	0.084	0.028
Endosulfan I	ND	0.064	0.021
Endosulfan II	ND	0.079	0.026
Endosulfan sulfate	ND	0.157	0.052
Endrin	ND	0.136	0.045
EPN	ND	0.146	0.049
Epoxiconazole	ND	0.040	0.010
Eprinomectin	ND	0.400	0.100
Etaconazole	ND	0.400	0.100
Ethalfluralin	ND	3	1
Ethiofencarb	ND	0.200	0.050
Ethiprole	ND	0.040	0.010
Ethirimol	ND	0.040	0.010
Ethofumesate	ND	0.040	0.010
Ethyl Parathion	ND	0.065	0.022
Ethylan	ND	0.046	0.015
Etridiazole	ND	0.072	0.024
Famoxadone	ND	4	1
Fenamidone	ND	0.080	0.020
Fenarimol	ND	0.040	0.010
Fenazaquin	ND	0.400	0.100
Fenbuconazole	ND	0.040	0.010
Fenchlorphos	ND	0.051	0.017
Fenitrothion	ND	0.053	0.018
Fenobucarb	ND	0.040	0.010
Fenpropimorph	ND	0.200	0.050
Fenson	ND	0.048	0.016
Fensulfothion	ND	0.010	0.005
Fenthion	ND	0.007	0.003
Fenuron	ND	0.200	0.050
Fenvalerate 1	ND	0.080	0.027
Fenvalerate 2	ND	0.074	0.025
Fluazifop-P-butyl	ND	0.032	0.011
Flubendiamide	ND	0.400	0.100
Fluchloralin	ND	0.063	0.021
Flucythrinate 1	ND	0.093	0.031
Flucythrinate 2	ND	0.052	0.017
Flufenacet	ND	0.040	0.010
Flufenoxuron	ND	0.200	0.050
Fluometuron	ND	0.040	0.010
Fluopyram	ND	0.015	0.005
Fluoxastrobin	ND	0.040	0.010

		LOQ	LOD
	µg/g	µg/g	µg/g
Fluquinconazole	ND	0.200	0.050
Flusilazole	ND	0.400	0.100
Flutolanil	ND	0.200	0.050
Flutriafol	ND	0.040	0.010
Folpet	ND	0.040	0.013
Fonofos	ND	0.069	0.023
Forchlorfenuron	ND	0.100	0.025
Formetanate HCl	ND	0.080	0.020
Fuberidazole	ND	0.040	0.010
Furathiocarb	ND	0.040	0.010
gamma-BHC	ND	0.059	0.020
Halofenozide	ND	4	1
Heptachlor	ND	0.065	0.022
Heptachlor epoxide	ND	0.157	0.052
Hexachlorobenzene	ND	0.098	0.033
Hexaflumuron	ND	4	1
Hydramethylnon	ND	0.040	0.010
Indoxacarb	ND	0.200	0.050
Iodofenphos	ND	0.088	0.029
Ipconazole	ND	0.400	0.100
Iprovalicarb	ND	0.200	0.050
Isazophos	ND	0.078	0.026
Isocarbophos	ND	4	1
Isodrin	ND	0.042	0.014
Isoprocarb	ND	0.160	0.040
Isopropalin	ND	0.189	0.063
Isoproturon	ND	0.040	0.0100
Ivermectin	ND	0.300	0.100
Linuron	ND	0.400	0.100
Lufenuron	ND	4	1
Mandipropamid	ND	0.040	0.010
Mefenacet	ND	0.040	0.010
Mepanipyrim	ND	0.160	0.040
Mepronil	ND	0.040	0.010
Mesotrione	ND	4	1
Metaflumizone	ND	0.04	0.010
Metazachlor	ND	0.083	0.028
Metconazole	ND	0.240	0.060
Methabenzthiazuron	ND	0.040	0.010
Methacrifos	ND	0.072	0.024
Methamidophos	ND	0.040	0.010
Methoprene 2	ND	0.050	0.025
Methoprotryne	ND	0.160	0.040
Methoxyfenozide	ND	0.040	0.010
Metobromuron	ND	0.040	0.010
Metolachlor	ND	0.040	0.013

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Chemical Residue Screening

		LOQ	LOD
	µg/g	µg/g	µg/g
Metribuzin	ND	0.400	0.100
Mexacarbate	ND	0.040	0.010
MGK-264 1	ND	0.059	0.020
MGK-264 2	ND	0.063	0.021
Monocrotophos	ND	0.200	0.050
Monolinuron	ND	0.040	0.010
Moxidectin	ND	0.080	0.020
Neburon	ND	0.200	0.050
Nitrofen	ND	0.031	0.010
Novaluron	ND	0.020	0.010
Nuarimol	ND	0.040	0.010
o,p'-DDD	ND	0.045	0.015
o,p'-DDE	ND	0.066	0.022
o,p'-DDT	ND	0.064	0.021
Omethoate	ND	0.040	0.010
Oxadiazon	ND	0.053	0.018
Oxadixyl	ND	0.200	0.050
Oxyfluorfen	ND	0.060	0.020
p,p'-DDD	ND	0.065	0.022
p,p'-DDE	<LOQ	0.061	0.020
p,p'-DDT	ND	0.112	0.037
Pebulate	ND	0.057	0.019
Penconazole	ND	0.400	0.100
Pencycuron	ND	4	1
Pendimethalin	ND	0.096	0.032
Pentachloroaniline	ND	0.064	0.021
Pentachloroanisole	ND	0.086	0.029
Pentachlorobenzene	ND	0.051	0.017
Pentachlorobenzonitrile	ND	0.037	0.012
Pentachlorothioanisole	ND	0.036	0.012
Phenmedipham	ND	4	1
Phenothrin	ND	0.030	0.015
Phorate	ND	0.026	0.009
Picoxystrobin	ND	0.200	0.050
Pirimicarb	ND	0.010	0.005
Pirimiphos-ethyl	ND	0.043	0.014
Pirimiphos-methyl	ND	3	1
Pretilachlor	ND	3	1
Prochloraz	ND	0.040	0.010
Procymidone	ND	0.068	0.023
Prodiamine	ND	0.041	0.014
Profenofos	ND	0.038	0.013
Profluralin	ND	0.100	0.033
Promecarb	ND	0.400	0.100
Prometryne	ND	0.040	0.010
Propachlor	ND	0.061	0.020
Propamocarb	ND	0.040	0.01
Propanil	ND	0.087	0.029
Propargite	ND	0.400	0.1
Propham	ND	4	1
Propisochlor	ND	0.128	0.043
Propyzamide	ND	0.084	0.028
Prothioconazole	ND	4	1
Prothiofos	ND	0.065	0.022
Pymetrozine	ND	0.040	0.010
Pyracarbolid	ND	0.040	0.010
Pyraclofos	ND	0.062	0.021
Pyraclostrobin	ND	0.040	0.010
Pyrimethanil	ND	0.200	0.050
Pyriproxyfen	ND	0.010	0.005
Quinalphos	ND	0.131	0.044
Quinoxyfen	ND	0.040	0.010
Resmethrin	ND	0.050	0.025
Rotenone	ND	0.040	0.010
Siduron	ND	0.200	0.050
Simetryn	ND	0.040	0.010
Spirodiclofen	ND	0.050	0.025
Sulfotep	ND	0.136	0.045
Sulprofos	ND	0.078	0.026
tau-Fluvalinate 1	ND	0.067	0.022
tau-Fluvalinate 2	ND	0.032	0.011
Tebufenozide	ND	0.010	0.005
Tebufenpyrad	ND	4	1
Tebuthiuron	ND	0.040	0.010
Tecnazene	ND	0.037	0.012
Teflubenzuron	ND	0.020	0.010
Tefluthrin	ND	0.044	0.015
Terbacil	ND	0.057	0.019
Terbufos	ND	3	1
Terbuthylazine	ND	0.048	0.016
Terbutryn	ND	0.160	0.040
Tetrachlorvinphos	ND	0.010	0.005
Tetraconazole	ND	0.400	0.100
Tetrahydrophthalimide	ND	0.186	0.062
Tetramethrin	ND	0.050	0.025
Thiabendazole	ND	0.010	0.005
Thidiazuron	ND	0.200	0.050
Thiobencarb	ND	4	1
Thiofanox	ND	4	1
Thiophanate-methyl	ND	0.020	0.010
Tolclofos-methyl	ND	0.053	0.018
Tolylfluanid	ND	0.045	0.015

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Chemical Residue Screening

		LOQ	LOD
	µg/g	µg/g	µg/g
trans-Chlorfenvinphos	ND	0.055	0.018
trans-Diallate	ND	0.092	0.031
Transfluthrin	ND	0.026	0.009
Triadimefon	ND	0.040	0.010
Triadimenol	ND	0.040	0.010
Triallate	ND	0.087	0.029
Trichlorfon	ND	0.160	0.040
Tricyclazole	ND	0.040	0.010

		LOQ	LOD
	µg/g	µg/g	µg/g
Triflumizole	ND	0.040	0.010
Triflumuron	ND	0.400	0.100
Trifluralin	ND	0.055	0.018
Triticonazole	ND	4	1
Vamidothion	ND	0.040	0.010
Vinclozolin	ND	0.036	0.012
Z-Bromfenvinphos-ethyl	ND	0.085	0.028
Zoxamide	ND	0.040	0.010

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