



Hearshaw and Kinnes Analytical Laboratory (Pty) Ltd.  
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## Test Report

Werda Boerdery  
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Report Reference: 236014  
 Issue Date: 25/02/2022

Attention: Pieter Conradie

Customer reference:

Samples Received: 11/02/2022

Analysis started: 11/02/2022

This report is issued in accordance with the requirements of ISO/IEC 17025

All samples were received in a condition adequate for testing.

This report supercedes report reference: None

Methods used in the analysis	MRLs reported
ET02	EU - European Union
FF01 (GC-ECD)	CND - Canada
FF02 (GC-MSMS)	RUS - Russia
LCMS (LC-MSMS)	UK - United Kingdom
	USA - United States

## Results Summary

Internal reference: 22079234

### Sample description

Producer: Hans  
 Producer Code: H0116  
 PHC: H2744  
 Orchard: CR1  
 Sampling Date: 11/02/2022  
 Commodity: Grape  
 Cultivar: Crimson Seedless

Compound(s) Detected	Residue [mg/kg]	MRL's [mg/kg]					%ARfD
		EU	CND	RUS	UK	USA	
Ethephon	0.54	1.00	2.00	1.00	1.00	-----	79.4
Penconazole	0.027	0.50	0.10	0.30	0.50	-----	0.4



S.K.C. Peall (Technical signatory)

The results on this report are only applicable to the samples, as received by the laboratory.

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While all reasonable care has been taken in checking and updating the MRL information on this report, Hearshaw and Kinnes Analytical Laboratory (Pty) Ltd. accepts no responsibility for the accuracy, reliability or completeness of the information provided.

The expanded uncertainty of measurement of the results on this report are < 50% at the 95% confidence level with a coverage factor of 2, in accordance

with SANTE/12682/2019, paragraph E13

The ARfD values on this report are calculated using the efsa model primo rev. 3



T0232



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Internal reference: 22079235

**Sample description**

Producer Hans  
Producer Code H0116  
PHC H2744  
Orchard CR2  
Sampling Date 11/02/2022  
Commodity Grape  
Cultivar Crimson Seedless

## MRL's [mg/kg]

<i>Compound(s) Detected</i>	<i>Residue [mg/kg]</i>	<i>EU</i>	<i>CND</i>	<i>RUS</i>	<i>UK</i>	<i>USA</i>	<i>%ARfD</i>
Ethephon	0.45	1.00	2.00	1.00	1.00	----	65
Penconazole	0.029	0.50	0.10	0.30	0.50	----	0.4

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The following compounds were sought, but not detected above their reporting limits [mg/kg], for the sample(s) on report 236014, unless specified in the body of the report.

**FF01 (GC-ECD)**

Captan (Captab)	0.1	Pirimiphos-methyl	0.01
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**LCMS (LC-MSMS)**

2,4D (Free Acid)	0.01	Abamectin	0.01	Acephate	0.01
Acetamiprid	0.01	Acetochlor	0.01	Acibenzolar-S-Methyl	0.01
Aldicarb	0.01	Aldicarb Sulphone (Aldoxycarb)	0.01	Aldicarb Sulphoxide	0.01
Ametoctradin	0.01	Ametryn	0.01	Atrazine	0.01
Azadirachtin	0.01	Benalaxyl	0.01	Benomyl (see Carbendazim)	0.01
Bentazone	0.01	Benthiavalicarb-isopropyl	0.01	Benzalkonium chloride (mixture of alkylbenzyltrimethylammonium chlorides with alkyl chain lengths of C10, C12, C14 and C16)	0.05
Bitertanol	0.01	Bromacil	0.1	Bromoxynil	0.01
Bromuconazole (sum of diastereoisomers)	0.01	Buprofezin	0.01	Cadusafos	0.01
Carbaryl	0.01	Carbendazim and benomyl (sum of benomyl and carbendazim expressed as carbendazim)	0.01	Carbofuran	0.01
Carbofuran-3-hydroxy	0.01	Chloramizol (Imazalil)	0.01	Chlorantraniliprole	0.01
Chlorimuron-ethyl	0.01	Chlorsulfuron	0.01	Clethodim	0.01
Clofentezine	0.01	Cloprop	0.01	Clothianidin	0.01
Cyanazine	0.01	Cyantraniliprole	0.01	Cyhexatin	0.01
Cymoxanil	0.01	Cyprodinil	0.01	Demeton-S-Methyl	0.01
Demeton-S-methyl Sulphone	0.01	Demeton-S-Methyl-Sulfoxide	0.01	Diafenthiuron	0.01
Dichlorprop (Free Acid) (including Dichlorprop-P)	0.01	Dichlorvos	0.01	Diclosulam	0.01
Didecyldimethylammonium Chloride	0.02	Diethyltoluamide	0.01	Difenoconazole	0.01
Diflubenzuron	0.01	Diflufenican	0.01	Dimethoate	0.01
Dimethomorph	0.01	Dioxacarb	0.01	Diuron	0.01
Dodine	0.01	Emamectin benzoate B1a, expressed as emamectin	0.01	Epoxiconazole	0.01
Etoxazole	0.01	Fenamidone	0.01	Fenamiphos (sum of fenamiphos and its sulphoxide and sulphone expressed as fenamiphos)	0.01
Fenazaquin	0.01	Fenbuconazole	0.01	Fenbutatin-Oxide	0.01
Fenhexamid	0.01	Fenoxycarb	0.05	Fenpyroximate	0.01
Fentin Hydroxide	0.01	Fipronil (sum fipronil + sulfone metabolite (MB46136) expressed as fipronil) (F)	0.005	Fipronil sulfone	0.01
Fonicamid (Sum of Fonicamid & Fonicamid TFNA & Fonicamid TFNG)	0.01	Fluazifop (free acid)	0.01	Fluazinam	0.01
Flubendiamide	0.01	Fludioxonil	0.01	Flufenoxuron	0.01
Flumetsulam	0.01	Fluopicolide	0.01	Fluopyram	0.01
Flupyradifurone	0.01	Fluquinconazole	0.01	Flusilazole	0.01
Fluxapyroxad	0.01	Fomesafen	0.01	Formetanate	0.01
Haloxyfop (free acid)	0.01	Imazapyr	0.01	Imazethapyr	0.01
Imidacloprid	0.01	Indaziflam	0.01	Indoxacarb	0.01

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**LCMS (LC-MSMS)**

Iprovalicarb	0.01	Isazofos	0.01	Isofetamid	0.01
Linuron	0.01	Lufenuron	0.01	Malaoxon	0.01
Mandipropamid	0.01	MCPA	0.01	Mefenoxam (Metalaxyl)	0.01
Mesotrione	0.01	Methamidophos	0.01	Methiocarb (Sum of Methiocarb, its sulphone & sulphoxide)	0.01
Methiocarb sulfoxide	0.01	Methiocarb-sulfone	0.01	Methomyl	0.01
Methoxyfenocide	0.01	Mevinphos	0.01	Monocrotophos	0.01
Novaluron	0.01	Omethoate	0.01	Oryzalin	0.01
* Oxadiazon	0.01	Oxamyl (sum of oxamyl and its oxime expressed as oxamyl)	0.01	Oxamyl-oxime	0.01
Oxydemeton-methyl	0.01	Paclobutrazole	0.01	Penthiopyrad	0.01
Phosalone	0.01	Phoxim	0.01	Piperonyl Butoxide	0.01
Pirimicarb	0.01	Prochloraz	0.01	Prometryn	0.01
Propamocarb	0.01	Propaquizafop	0.01	Propargite	0.01
Prosulfocarb	0.01	Prothioconazole	0.01	Pymetrozine	0.01
Pyraclostrobin	0.01	Pyrethrins (Sum of Cinerin I & II; Jasmolin I & II; Pyrethrin I & II)	0.01	Pyridaben	0.01
Pyridalyl	0.01	Pyridate	0.01	Pyrimethanil	0.01
Pyriproxyfen	0.01	Pyroxsulam	0.01	Rimsulfuron	0.01
Rotenone	0.01	Saflufenacil	0.01	Simazine	0.01
Spinetoram	0.01	Spinosad	0.01	Spirodiclofen	0.01
Spiromesifen	0.01	Spirotetramat (BYI08330-enol, BYI08330-ketohydroxy and BYI08330-enol-glucoside), expressed as Spirotetramat	0.01	Spiroxamine	0.01
Sulcotrione	0.01	Sulfoxaflor	0.01	Tebuconazole	0.01
Tebufenozide	0.01	Tebuthiuron	0.01	Teflubenzuron	0.01
Terbuthylazine	0.01	Tetrachlorvinphos	0.01	Thiabendazole	0.01
Thiacloprid	0.01	Thiadiazuron	0.01	Thiamethoxam (Sum of thiamethoxam and clothianidin, expressed as thiamethoxam)	0.01
* Thiophanate-methyl	0.01	Triadimefon	0.02	Triadimenol	0.02
Trichlorfon	0.01	Triclopyr	0.01	Trifloxystrobin	0.01
Triflumuron	0.01	Triforine	0.01	Triticonazole	0.01
Valifenalate	0.01	Vamidothion	0.01		
<b>ET02</b>					
Ethephon	0.05				



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## FF02 (GC-MSMS)

2,4-DDD	0.01	2,4-DDE	0.01	2,4-DDT	0.01
4,4-DDE	0.01	4,4-DDT	0.01	Acrinathrin	0.01
Alachlor	0.01	Aldrin	0.01	Allethrin	0.01
Alpha-BHC (Alpha-hexachlorocyclohexane)	0.01	Azaconazole	0.01	Azinphos-ethyl	0.01
Azinphos-methyl	0.01	Azoxystrobin	0.01	Bendiocarb	0.01
Benfluralin	0.01	Beta-BHC (Beta-hexachlorocyclohexane)	0.01	Bifenthrin (sum of isomers)	0.01
Boscalid	0.01*	Bromocyclen	0.01	Bromophos-Ethyl	0.01
Bromophos-Methyl	0.01	Bromopropylate	0.01	Bupirimate	0.01
Carbophenothion	0.01	Chinomethionate	0.01	Chlordane Alpha	0.01
Chlordane Gamma	0.01	Chlorfenson	0.01	Chlorfenvinphos	0.01
Chlorothalonil	0.01	Chlorphenapyr	0.01	Chlorpyrifos	0.01
Chlorpyrifos-methyl	0.01	Chlorthal-dimethyl	0.01	Clomazone	0.01
Coumaphos	0.01	Cycloate	0.01	Cyfluthrin (cyfluthrin including other mixtures of constituent isomers (sum of isomers))	0.01
Cypermethrin (cypermethrin including other mixtures of constituent isomers (sum of isomers))	0.01	Cyproconazole	0.01	Deltamethrin	0.01
Desmetryne	0.01	Dichlobutrazole	0.01	Dichlofenthion	0.01
Dichlofluandil	0.01	Diclofop-methyl	0.01	Dicloran	0.01
Dieldrin	0.01	Dimoxystrobin	0.01	Diniconazole	0.01
Dinobuton	0.01	Diofenolan	0.01	Diphenylamine	0.01
Endosulfan (Sum of alpha, beta endosulfan and endosulfan sulphate)	0.01	Endrin	0.01	EPN	0.01
Etaconazole	0.01	Ethion	0.01	Ethofumesate	0.01
Ethoprophos	0.01*	Ethoxyquin	0.05	Etofenprox	0.01
Etridiazole	0.01	Famoxadone	0.01	Fenarimol	0.01
Fenitrothion	0.01	Fenoxaprop-P-ethyl	0.01	Fenpropathrin	0.01
Fenson	0.01	Fenthion	0.01	Fenthion-oxon-sulfone	0.01
Fenthion-oxon-sulfoxide	0.01	Fenthion-sulfone	0.01	Fenthion-sulfoxide	0.01
Fenvalerate (Sum of isomers, including esfenvalerate)	0.01	Flamprop-methyl	0.01*	Fluchloralin	0.01
Flumioxazine	0.01	Fluorochloridone	0.01	Flutriafol	0.01
* Folpet (sum of folpet and phthalimide, expressed as folpet)	0.01	Fonofos	0.01	Gamma-BHC (Gamma-hexachlorocyclohexane, Lindane)	0.01
Heptachlor	0.01	Heptachlor-endo-epoxide	0.01	Heptachlor-exo-epoxide	0.01
Heptenophos	0.01	Hexachlorobenzene	0.01	Hexaconazole	0.01
Iprodione	0.01	Isofenphos	0.01	Isofenphos-methyl	0.01
Kresoxim-methyl	0.01	Lambda-cyhalothrin (includes gamma-cyhalothrin) (sum of R,S and S,R isomers)	0.01	Mecarbam	0.01
Mepanipyrim	0.01	Mepronil	0.01	Mercaptothion (Malathion)	0.01
Metazachlor	0.01	Methidathion	0.01	Metolachlor	0.01
Metrafenone	0.01	Metribuzin	0.01	Mirex	0.01
Molinate	0.01	Myclobutanil	0.01	Nitrothal-isopropyl	0.01
Nuarimol	0.01	Ofurace	0.01	Ortho Phenyl Phenol (2-Phenylphenol)	0.01
Oxadixyl	0.01	Oxyfluorfen	0.01	Paraoxon-ethyl	0.01



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## FF02 (GC-MSMS)

Paraoxon-methyl	0.01	Parathion-ethyl	0.01	Parathion-methyl	0.01
Penconazole	0.01	Pendimethalin	0.01	Pentachloroanisole	0.01
Pentachloroaniline	0.01	Permethrin (sum of isomers)	0.01	Phenthoate	0.01
Phorate	0.01	Phosmet	0.01	Picoxystrobin	0.01
Pirimiphos-ethyl	0.01	Procymidone	0.01	Profenofos	0.01
Profluralin	0.01	Promecarb	0.01	Propachlor	0.01
Propiconazole (sum of isomers)	0.01	Propoxur	0.01	Propyzamide	0.01
Proquinazid	0.01	Prothiofos	0.01	Pyraflufen-ethyl	0.01
Pyrazophos	0.01	Pyridaphenthion	0.01	Pyrifenox	0.01
Quinoxifen	0.01	Quintozene	0.01	Quizalofop-ethyl	0.01
Sulfentrazone	0.01	Sulfotep	0.01	tau-Fluvalinate	0.01
Tefluthrin	0.01	Terbufos	0.01	Terbutryn	0.01
Tetraconazole	0.01	Tetradifon	0.01	Tetramethrin	0.01
Tolclofos-methyl	0.01	Tri-allate	0.01	Triazophos	0.01
Triflumizole	0.01	Trifluralin	0.01	Uniconazole	0.01
Vinclozolin	0.01	Zoxamide	0.01		

\* indicates that this determination is not included in the scope of accreditation for the laboratory

\*\*\*\*\* end of report \*\*\*\*\*