



Northwest Onion Company

11235 Portland Road NE
Brooks, OR 97305

Client Sample ID: Red Onions Crown Classic

PAL Sample ID: P172612-02

Sample Type: Onion

Report Number: P172612

Report Date: October 31, 2017

Client Project ID:

Sample Date: 10/19/2017

Received Date: 10/19/2017

Extraction Date: 10/24/2017

Maximum Residue Level (MRL) Summary

Values displayed in **red** indicate sample results that exceed the MRL for this market.

No residues present above the stated LOQ.

All MRL data is provided by Bryant Christie, Inc., www.globalmrl.com. MRLs frequently change, and the user accepts that the MRL information herein is only intended to be an initial reference. PAL, LLC is not liable for any damages, in whole or in part, caused by or arising in any way from its usage. It is important that the MRL data obtained from this report be verified with knowledgeable parties in the market of interest prior to sale or shipment of product or commodity.

A handwritten signature in black ink, appearing to read 'Rick Jordan', is written over a horizontal line.



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Analytical Results

Analysis Date	Analyte	Amount Detected	LOQ (mg/kg)	Notes	Analysis Date	Analyte	Amount Detected	LOQ (mg/kg)	Notes
AOAC 2007.01 (LC-MS/MS)									
10/25/2017	3-Hydroxycarbofuran	ND	0.010		10/25/2017	Abamectin	ND	0.010	
10/25/2017	Acephate	ND	0.010		10/25/2017	Acetamiprid	ND	0.010	
10/25/2017	Acibenzolar-S-methyl	ND	0.020		10/25/2017	Aldicarb	ND	0.010	
10/25/2017	Aldicarb Sulfone	ND	0.010		10/25/2017	Aldicarb Sulfoxide	ND	0.010	
10/25/2017	Allethrin	ND	0.010		10/25/2017	Ametoctradin	ND	0.010	
10/25/2017	Atrazine	ND	0.010		10/25/2017	Azinphos-ethyl	ND	0.010	
10/25/2017	Azinphos-methyl	ND	0.020		10/25/2017	Azoxystrobin	ND	0.010	
10/25/2017	Bendiocarb	ND	0.010		10/25/2017	Bensulide	ND	0.010	
10/25/2017	Bifenazate	ND	0.010		10/25/2017	Bitertanol	ND	0.010	
10/25/2017	Boscalid	ND	0.010		10/25/2017	Bromacil	ND	0.010	
10/25/2017	Carbaryl	ND	0.010		10/25/2017	Carbendazim	ND	0.010	
10/25/2017	Carbofuran	ND	0.010		10/25/2017	Carfentrazone-ethyl	ND	0.010	
10/25/2017	Chlorantraniliprole	ND	0.010		10/25/2017	Clethodim	ND	0.020	
10/25/2017	Clofentezine	ND	0.010		10/25/2017	Clothianidin	ND	0.010	
10/25/2017	Cyanazine	ND	0.010		10/25/2017	Cyantraniliprole	ND	0.010	
10/25/2017	Cyazofamid	ND	0.010		10/25/2017	Cycloate	ND	0.020	
10/25/2017	Cyflufenamid	ND	0.010		10/25/2017	Cyflumetofen	ND	0.010	
10/25/2017	Cymoxanil	ND	0.010		10/25/2017	Cyprodinil	ND	0.010	
10/25/2017	Cyromazine	ND	0.010		10/25/2017	DCPMU	ND	0.010	
10/25/2017	Diazoxon	ND	0.010		10/25/2017	Difenoconazole	ND	0.010	
10/25/2017	Diflubenzuron	ND	0.010		10/25/2017	Dimethoate	ND	0.010	
10/25/2017	Dimethomorph	ND	0.010		10/25/2017	Dinotefuran	ND	0.010	
10/25/2017	Disulfoton sulfone	ND	0.010		10/25/2017	Diuron	ND	0.010	
10/25/2017	Dodine	ND	0.010		10/25/2017	d-Phenothrin	ND	0.010	
10/25/2017	Emamectin Benzoate	ND	0.010		10/25/2017	Ethion	ND	0.010	
10/25/2017	Famoxadone	ND	0.010		10/25/2017	Famphur	ND	0.010	
10/25/2017	Fenamidone	ND	0.010		10/25/2017	Fenamiphos sulfone	ND	0.010	
10/25/2017	Fenamiphos sulfoxide	ND	0.010		10/25/2017	Fenazaquin	ND	0.010	
10/25/2017	Fenbuconazole	ND	0.010		10/25/2017	Fenbutatin oxide	ND	0.010	
10/25/2017	Fenhexamid	ND	0.010		10/25/2017	Fenobucarb	ND	0.010	
10/25/2017	Fenpropathrin	ND	0.010		10/25/2017	Fenpyroximate	ND	0.010	
10/25/2017	Fenuron	ND	0.010		10/25/2017	Fonicamid	ND	0.010	
10/25/2017	Fluazinam	ND	0.010		10/25/2017	Flubendiamide	ND	0.020	
10/25/2017	Flumioxazin	ND	0.010		10/25/2017	Fluometuron	ND	0.010	
10/25/2017	Fluopicolide	ND	0.010		10/25/2017	Fluopyram	ND	0.010	
10/25/2017	Fluoxastrobin	ND	0.010		10/25/2017	Flupyradifurone	ND	0.010	
10/25/2017	Fluridone	ND	0.010		10/25/2017	Flutriafol	ND	0.010	
10/25/2017	Fluvalinate	ND	0.010		10/25/2017	Fluxapyroxad	ND	0.010	
10/25/2017	Fonofos	ND	0.020		10/25/2017	Formetanate HCl	ND	0.010	



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Analytical Results (Continued)

Analysis Date	Analyte	Amount Detected	LOQ (mg/kg)	Notes	Analysis Date	Analyte	Amount Detected	LOQ (mg/kg)	Notes
AOAC 2007.01 (LC-MS/MS) (Continued)									
10/25/2017	Hexaconazole	ND	0.010		10/25/2017	Hexazinone	ND	0.010	
10/25/2017	Hexythiazox	ND	0.010		10/25/2017	Imazalil	ND	0.010	
10/25/2017	Imidacloprid	ND	0.010		10/25/2017	Indaziflam	ND	0.010	
10/25/2017	Indoxacarb	ND	0.010		10/25/2017	Iprodione	ND	0.050	
10/25/2017	Isoxaben	ND	0.010		10/25/2017	Linuron	ND	0.010	
10/25/2017	Malaoxon	ND	0.010		10/25/2017	Mandipropamid	ND	0.010	
10/25/2017	Metconazole	ND	0.010		10/25/2017	Methamidophos	ND	0.020	
10/25/2017	Methodathion	ND	0.010		10/25/2017	Methiocarb	ND	0.010	
10/25/2017	Methomyl	ND	0.010		10/25/2017	Methoxyfenozide	ND	0.010	
10/25/2017	Metrafenone	ND	0.010		10/25/2017	Metribuzin	ND	0.010	
10/25/2017	Mevinphos	ND	0.010		10/25/2017	Norflurazon	ND	0.010	
10/25/2017	Novaluron	ND	0.010		10/25/2017	Omethoate	ND	0.010	
10/25/2017	Oryzalin	ND	0.010		10/25/2017	Oxadixyl	ND	0.010	
10/25/2017	Oxamyl	ND	0.010		10/25/2017	Oxydemeton-Methyl	ND	0.010	
10/25/2017	Penthiopyrad	ND	0.010		10/25/2017	Phorate Sulfone	ND	0.010	
10/25/2017	Phorate Sulfoxide	ND	0.010		10/25/2017	Phosalone	ND	0.010	
10/25/2017	Phosmet	ND	0.010		10/25/2017	Phosphamidon	ND	0.010	
10/25/2017	Piperonyl Butoxide	ND	0.010		10/25/2017	Pirimicarb	ND	0.010	
10/25/2017	Pirimiphos-methyl	ND	0.010		10/25/2017	Prometon	ND	0.010	
10/25/2017	Prometryn	ND	0.010		10/25/2017	Propargite	ND	0.010	
10/25/2017	Propazine	ND	0.010		10/25/2017	Propiconazole	ND	0.020	
10/25/2017	Prothioconazole	ND	0.020		10/25/2017	Pymetrozine	ND	0.010	
10/25/2017	Pyraclostrobin	ND	0.010		10/25/2017	Pyraflufen-ethyl	ND	0.010	
10/25/2017	Pyrethrin	ND	0.050		10/25/2017	Pyridaben	ND	0.010	
10/25/2017	Pyrimethanil	ND	0.010		10/25/2017	Rotenone	ND	0.010	
10/25/2017	Saflufenacil	ND	0.010		10/25/2017	Sethoxydim	ND	0.020	
10/25/2017	Siduron	ND	0.010		10/25/2017	Simazine	ND	0.010	
10/25/2017	Simetryn	ND	0.010		10/25/2017	Spinetoram	ND	0.010	
10/25/2017	Spinosad	ND	0.010		10/25/2017	Spiromesifen	ND	0.020	
10/25/2017	Spirotetramat	ND	0.010		10/25/2017	Spiroxamine	ND	0.010	
10/25/2017	Sulfentrazone	ND	0.010		10/25/2017	Sulfoxaflor	ND	0.010	
10/25/2017	Tebuconazole	ND	0.010		10/25/2017	Tebufenozide	ND	0.010	
10/25/2017	Tebuthiuron	ND	0.010		10/25/2017	Terbacil	ND	0.010	
10/25/2017	Terbutylazine	ND	0.010		10/25/2017	Terbutryn	ND	0.010	
10/25/2017	Thiabendazole	ND	0.010		10/25/2017	Thiacloprid	ND	0.010	
10/25/2017	Thiamethoxam	ND	0.010		10/25/2017	Thiobencarb	ND	0.010	
10/25/2017	Thiodicarb	ND	0.010		10/25/2017	Thiophanate methyl	ND	0.010	
10/25/2017	Tolfenpyrad	ND	0.010		10/25/2017	Triadimefon	ND	0.010	
10/25/2017	Triadimenol	ND	0.020		10/25/2017	Trifloxystrobin	ND	0.010	



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Analytical Results (Continued)

Analysis Date	Analyte	Amount Detected	LOQ (mg/kg)	Notes	Analysis Date	Analyte	Amount Detected	LOQ (mg/kg)	Notes
AOAC 2007.01 (LC-MS/MS) (Continued)									
10/25/2017	Triflumizole	ND	0.010						
AOAC 2007.01 (GC-MS/MS)									
10/24/2017	2,6-Dichlorobenzamide	ND	0.010		10/24/2017	a-BHC	ND	0.010	
10/24/2017	Acetochlor	ND	0.010		10/24/2017	Alachlor	ND	0.010	
10/24/2017	Aldrin	ND	0.010		10/24/2017	Ametryn	ND	0.010	
10/24/2017	b-BHC	ND	0.010		10/24/2017	Benfluralin	ND	0.010	
10/24/2017	Bifenthrin	ND	0.010		10/24/2017	Bromopropylate	ND	0.010	
10/24/2017	Buprofezin	ND	0.010		10/24/2017	Captan	ND	0.20	
10/24/2017	Chlordane	ND	0.010		10/24/2017	Chloroneb	ND	0.010	
10/24/2017	Chlorothalonil	ND	0.010		10/24/2017	Chlorpropham	ND	0.010	
10/24/2017	Chlorpyrifos	ND	0.010		10/24/2017	Chlorpyrifos-methyl	ND	0.010	
10/24/2017	cis-Nonachlor	ND	0.010		10/24/2017	Cyfluthrin	ND	0.050	
10/24/2017	Cypermethrin	ND	0.050		10/24/2017	Dacthal	ND	0.010	
10/24/2017	d-BHC	ND	0.010		10/24/2017	Deltamethrin	ND	0.050	
10/24/2017	Diazinon	ND	0.010		10/24/2017	Dichlobenil	ND	0.010	
10/24/2017	Dichlorofenthion	ND	0.010		10/24/2017	Dichlorvos	ND	0.010	
10/24/2017	Diclofop-methyl	ND	0.010		10/24/2017	Dicloran	ND	0.050	
10/24/2017	Dicofol	ND	0.010		10/24/2017	Dieldrin	ND	0.010	
10/24/2017	Dimethenamid	ND	0.010		10/24/2017	Diphenamid	ND	0.010	
10/24/2017	Diphenylamine	ND	0.010		10/24/2017	Disulfoton	ND	0.010	
10/24/2017	Dithiopyr	ND	0.010		10/24/2017	Endosulfan I	ND	0.020	
10/24/2017	Endosulfan II	ND	0.020		10/24/2017	Endosulfan sulfate	ND	0.020	
10/24/2017	Endrin	ND	0.010		10/24/2017	Endrin aldehyde	ND	0.010	
10/24/2017	Endrin ketone	ND	0.010		10/24/2017	Esfenvalerate	ND	0.010	
10/24/2017	Ethalfuralin	ND	0.010		10/24/2017	Ethofumesate	ND	0.010	
10/24/2017	Ethoprop	ND	0.010		10/24/2017	Ethoxyquin	ND	0.010	
10/24/2017	Etoxazole	ND	0.010		10/24/2017	Etridiazole	ND	0.010	
10/24/2017	Fenarimol	ND	0.010		10/24/2017	Fenoxaprop-ethyl	ND	0.010	
10/24/2017	Fenvalerate	ND	0.010		10/24/2017	Fipronil	ND	0.010	
10/24/2017	Fluazifop-p-butyl	ND	0.010		10/24/2017	Fludioxonil	ND	0.010	
10/24/2017	Fluroxypyr-meptyl	ND	0.010		10/24/2017	Flutolanil	ND	0.010	
10/24/2017	g-BHC	ND	0.010		10/24/2017	Heptachlor	ND	0.010	
10/24/2017	Heptachlor epoxide	ND	0.010		10/24/2017	Hexachlorobenzene	ND	0.010	
10/24/2017	Kresoxim-methyl	ND	0.010		10/24/2017	lambda-Cyhalothrin	ND	0.010	
10/24/2017	Malathion	ND	0.010		10/24/2017	Mefenoxam	ND	0.010	
10/24/2017	Methoxychlor	ND	0.010		10/24/2017	Metolachlor	ND	0.010	
10/24/2017	MGK-264	ND	0.010		10/24/2017	Myclobutanil	ND	0.010	
10/24/2017	Napropamide	ND	0.010		10/24/2017	o-Phenylphenol	ND	0.010	



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Analysis Date	Analyte	Amount Detected	LOQ (mg/kg)	Notes	Analysis Date	Analyte	Amount Detected	LOQ (mg/kg)	Notes
AOAC 2007.01 (GC-MS/MS) (Continued)									
10/24/2017	Oxadiazon	ND	0.010		10/24/2017	Oxyfluorfen	ND	0.010	
10/24/2017	p,p'-DDD	ND	0.010		10/24/2017	p,p'-DDE	ND	0.010	
10/24/2017	p,p'-DDT	ND	0.010		10/24/2017	Parathion-methyl	ND	0.010	
10/24/2017	PCA	ND	0.010		10/24/2017	PCB	ND	0.010	
10/24/2017	PCNB	ND	0.010		10/24/2017	Pendimethalin	ND	0.010	
10/24/2017	Pentachlorophenyl methyl sulfide	ND	0.010		10/24/2017	Permethrin	ND	0.050	
10/24/2017	Procymidone	ND	0.010		10/24/2017	Prodiamine	ND	0.010	
10/24/2017	Pronamide	ND	0.010		10/24/2017	Propachlor	ND	0.010	
10/24/2017	Pyriproxyfen	ND	0.010		10/24/2017	Quinoxifen	ND	0.010	
10/24/2017	Spirodiclofen	ND	0.010		10/24/2017	Tetraconazole	ND	0.010	
10/24/2017	Tetradifon	ND	0.010		10/24/2017	trans-Nonachlor	ND	0.010	
10/24/2017	Trifluralin	ND	0.010		10/24/2017	Vinclozalin	ND	0.010	

Notes and Definitions

Notes	Definition
LOQ	Limit of Quantitation
MRL	Maximum Residue Level
ND	Not Detected
*	Not included under current scope of accreditation

The results contained in this report relate only to the items tested.
The results reflect the condition of the samples as received by PAL.
Samples will be stored for a minimum of 60 days after the final report is issued, as described in our Quality Manual.
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