



Northwest Onion Company
11235 Portland Road NE
Brooks, OR 97305

Report Number: P230105
Report Date: February 13, 2023
Client Project ID:

Client Sample ID: Pacific Rose Onions Red
PAL Sample ID: P230105-01
Sample Type: Onion

Sample Date: 01/26/2023
Received Date: 01/26/2023
Extraction Date: 02/09/2023

- Revised -

Certificate of Analysis

Analysis Date	Analyte	Amount Detected	LOQ (mg/kg)	Notes	Analysis Date	Analyte	Amount Detected	LOQ (mg/kg)	Notes
AOAC 2007.01 (LC-MS/MS)									
01/27/2023	3-Hydroxycarbofuran	ND	0.010		01/27/2023	Abamectin	ND	0.010	
01/27/2023	Acephate	ND	0.010		01/27/2023	Acetamiprid	ND	0.010	
01/27/2023	Acibenzolar-S-methyl	ND	0.020		01/27/2023	Afidopyropen	ND	0.050	
01/27/2023	Aldicarb	ND	0.010		01/27/2023	Aldicarb Sulfone	ND	0.010	
01/27/2023	Aldicarb Sulfoxide	ND	0.010		01/27/2023	Allethrin	ND	0.010	
01/27/2023	Ametoctradin	ND	0.010		01/27/2023	Atrazine	ND	0.010	
01/27/2023	Azinphos-ethyl	ND	0.010		01/27/2023	Azinphos-methyl	ND	0.020	
01/27/2023	Azoxystrobin	ND	0.010		01/27/2023	Bendiocarb	ND	0.010	
01/27/2023	Bensulfuron methyl	ND	0.010		01/27/2023	Bensulide	ND	0.010	
01/27/2023	Bicyclopyrone	ND	0.010		01/27/2023	Bifenazate	ND	0.010	
01/27/2023	Bispyribac-sodium	ND	0.010		01/27/2023	Bitertanol	ND	0.010	
01/27/2023	Boscalid	ND	0.010		01/27/2023	Bromacil	ND	0.010	
01/27/2023	Carbaryl	ND	0.010		01/27/2023	Carbendazim	ND	0.010	
01/27/2023	Carbofuran	ND	0.010		01/27/2023	Carboxin	ND	0.010	
01/27/2023	Carfentrazone-ethyl	ND	0.010		01/27/2023	Chlorantraniliprole	ND	0.010	
01/27/2023	Chlorimuron-ethyl	ND	0.010		01/27/2023	Cletbodim	ND	0.020	
01/27/2023	Clofentezine	ND	0.010		01/27/2023	Clomazone	ND	0.010	
01/27/2023	Cloransulam-methyl	ND	0.010		01/27/2023	Clothianidin	ND	0.010	
01/27/2023	Cyanazine	ND	0.010		01/27/2023	Cyantraniliprole	ND	0.010	
01/27/2023	Cyazofamid	ND	0.010		01/27/2023	Cyclaniliprole	ND	0.050	
01/27/2023	Cycloate	ND	0.020		01/27/2023	Cyflufenamid	ND	0.010	
01/27/2023	Cyflumetofen	ND	0.010		01/27/2023	Cyhalofop-butyl	ND	0.050	
01/27/2023	Cymoxanil	ND	0.010		01/27/2023	Cyprodinil	ND	0.010	
01/27/2023	Cyprosulfamide	ND	0.010		01/27/2023	Cyromazine	ND	0.010	
01/27/2023	DCPMU	ND	0.010		01/27/2023	Diazoxon	ND	0.010	
01/27/2023	Difenoconazole	ND	0.010		01/27/2023	Diflubenzuron	ND	0.010	
01/27/2023	Diflufenican	ND	0.010		01/27/2023	Dimethoate	ND	0.010	
01/27/2023	Dimethomorph	ND	0.010		01/27/2023	Dinotefuran	ND	0.010	
01/27/2023	Dioxathion	ND	0.010		01/27/2023	Disulfoton sulfone	ND	0.010	
01/27/2023	Diuron	ND	0.010		01/27/2023	Dodine	ND	0.010	
01/27/2023	d-Phenothrin	ND	0.010		01/27/2023	Emamectin Benzoate	ND	0.010	
01/27/2023	Ethion	ND	0.010		01/27/2023	Famoxadone	ND	0.010	
01/27/2023	Famphur	ND	0.010		01/27/2023	Fenamidone	ND	0.010	
01/27/2023	Fenamiphos sulfone	ND	0.010		01/27/2023	Fenamiphos sulfoxide	ND	0.010	

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Certificate of Analysis
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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 (LC-MS/MS) (Continued)									
01/27/2023	Fenazaquin	ND	0.010		01/27/2023	Fenbuconazole	ND	0.010	
01/27/2023	Fenbutatin oxide	ND	0.010		01/27/2023	Fenhexamid	ND	0.010	
01/27/2023	Fenobucarb	ND	0.010		01/27/2023	Fenoxycarb	ND	0.010	
01/27/2023	Fenpropathrin	ND	0.010		01/27/2023	Fenpyroximate	ND	0.010	
01/27/2023	Fenuron	ND	0.010		01/27/2023	Flonicamid	ND	0.010	
01/27/2023	Fluazinam	ND	0.010		01/27/2023	Flubendiamide	ND	0.020	
01/27/2023	Flufenacet	ND	0.010		01/27/2023	Flumioxazin	ND	0.010	
01/27/2023	Fluometuron	ND	0.010		01/27/2023	Fluopicolide	ND	0.010	
01/27/2023	Fluopyram	ND	0.010		01/27/2023	Fluoxastrobin	ND	0.010	
01/27/2023	Flupyradifurone	ND	0.010		01/27/2023	Fluridone	ND	0.010	
01/27/2023	Fluthiaul	ND	0.010		01/27/2023	Flutriafeol	ND	0.010	
01/27/2023	Fluvalinate	ND	0.010		01/27/2023	Fluxapyroxad	ND	0.010	
01/27/2023	Fomesafen	ND	0.010		01/27/2023	Fonofos	ND	0.020	
01/27/2023	Formetanate HCl	ND	0.010		01/27/2023	Hexaconazole	ND	0.010	
01/27/2023	Hexazinone	ND	0.010		01/27/2023	Hexythiazox	ND	0.010	
01/27/2023	Imazali	ND	0.010		01/27/2023	Imidacloprid	ND	0.010	
01/27/2023	Indaziflam	ND	0.010		01/27/2023	Indoxacarb	ND	0.010	
01/27/2023	Iodosulfuron-methyl	ND	0.010		01/27/2023	Iaconazole	ND	0.010	
01/27/2023	Iprodione	ND	0.050		01/27/2023	Isofetamid	ND	0.010	
01/27/2023	Isoxaben	ND	0.010		01/27/2023	Isoxadifen-ethyl	ND	0.010	
01/27/2023	Lactofen	ND	0.010		01/27/2023	Linuron	ND	0.010	
01/27/2023	Malaonox	ND	0.010		01/27/2023	Mandipropamid	ND	0.010	
01/27/2023	Mefentrifluconazole	ND	0.010		01/27/2023	Metconazole	ND	0.010	
01/27/2023	Methamidophos	ND	0.020		01/27/2023	Methidathion	ND	0.010	
01/27/2023	Methiocarb	ND	0.010		01/27/2023	Methomyl	ND	0.010	
01/27/2023	Methoxyfenozide	ND	0.010		01/27/2023	Metrafenone	ND	0.010	
01/27/2023	Metribuzin	ND	0.010		01/27/2023	Metsulfuron methyl	ND	0.010	
01/27/2023	Mevinphos	ND	0.010		01/27/2023	Neburon	ND	0.010	
01/27/2023	Nicosulfuron	ND	0.010		01/27/2023	Norflurazon	ND	0.010	
01/27/2023	Novaluron	ND	0.010		01/27/2023	Omethoate	ND	0.010	
01/27/2023	Oryzalin	ND	0.010		01/27/2023	Oxadixyl	ND	0.010	
01/27/2023	Oxamyl	ND	0.010		01/27/2023	Oxydemeton-Methyl	ND	0.010	
01/27/2023	Penoxsulam	ND	0.010		01/27/2023	Penthiopyrad	ND	0.010	
01/27/2023	Phorate Sulfone	ND	0.010		01/27/2023	Phorate Sulfoxide	ND	0.010	

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AOAC 2007.01 (LC-MS/MS) (Continued)									
01/27/2023	Phosalone	ND	0.010		01/27/2023	Phosmet	ND	0.010	
01/27/2023	Phosphamidon	ND	0.010		01/27/2023	Picoxystrobin	ND	0.010	
01/27/2023	Piperonyl Butoxide	ND	0.010		01/27/2023	Pirimicarb	ND	0.010	
01/27/2023	Pirimiphos-methyl	ND	0.010		01/27/2023	Prallethrin	ND	0.010	
01/27/2023	Prometon	ND	0.010		01/27/2023	Prometryn	ND	0.010	
01/27/2023	Propanil	ND	0.020		01/27/2023	Propargite	ND	0.010	
01/27/2023	Propazine	ND	0.010		01/27/2023	Propiconazole	ND	0.020	
01/27/2023	Propoxur	ND	0.010		01/27/2023	Prothioconazole	ND	0.020	
01/27/2023	Pydiflumetofen	ND	0.010		01/27/2023	Pymetrozine	ND	0.010	
01/27/2023	Pyraclostrobin	ND	0.010		01/27/2023	Pyraflufen-ethyl	ND	0.010	
01/27/2023	Pyrasulfotole	ND	0.010		01/27/2023	Pyrethrin	ND	0.050	
01/27/2023	Pyridaben	ND	0.010		01/27/2023	Pyridatyl	ND	0.010	
01/27/2023	Pyrimethanil	ND	0.010		01/27/2023	Pyroxasulfone	ND	0.010	
01/27/2023	Quisalofop-p-ethyl	ND	0.010		01/27/2023	Rotenone	ND	0.010	
01/27/2023	Saflufenacil	ND	0.010		01/27/2023	Sethoxydim	ND	0.020	
01/27/2023	Siduron	ND	0.010		01/27/2023	Simazine	ND	0.010	
01/27/2023	Simetryn	ND	0.010		01/27/2023	Spinetoram	ND	0.010	
01/27/2023	Spinosad	ND	0.010		01/27/2023	Spiromesifen	ND	0.020	
01/27/2023	Spirotetramat	ND	0.010		01/27/2023	Spiroxamine	ND	0.010	
01/27/2023	Sulfentrazone	ND	0.010		01/27/2023	Sulfonclaron-methyl	ND	0.010	
01/27/2023	Sulfoxaflor	ND	0.010		01/27/2023	Tebuconazole	ND	0.010	
01/27/2023	Tebufenozide	ND	0.010		01/27/2023	Tebuthiuron	ND	0.010	
01/27/2023	Terbacil	ND	0.010		01/27/2023	Terbutylazine	ND	0.010	
01/27/2023	Terbutryn	ND	0.010		01/27/2023	Thiabendazole	ND	0.010	
01/27/2023	Thiacloprid	ND	0.010		01/27/2023	Thiamethoxam	ND	0.010	
01/27/2023	Thiencarbazone-methyl	ND	0.020		01/27/2023	Thifensulfuron-methyl	ND	0.010	
01/27/2023	Thiobencarb	ND	0.010		01/27/2023	Thiodicarb	ND	0.010	
01/27/2023	Thiophanate-methyl	ND	0.010		01/27/2023	Tolfenpyrad	ND	0.010	
01/27/2023	Triadimefon	ND	0.010		01/27/2023	Triadimenol	ND	0.020	
01/27/2023	Triallate	ND	0.020		01/27/2023	Trifloxystrobin	ND	0.010	
01/27/2023	Trifloxysulfuron-sodium	ND	0.010		01/27/2023	Triflumizole	ND	0.010	
01/27/2023	Trinexapac-ethyl	ND	0.010		01/27/2023	Triticonazole	ND	0.010	

AOAC 2007.01 (GC-MS/MS)

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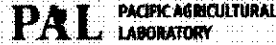
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Certificate of Analysis
(Continued)

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)									
01/27/2023	2,6-Dichlorobenzamide	ND	0.010		01/27/2023	n-BHC	ND	0.010	
01/27/2023	Acetochlor	ND	0.010		01/27/2023	Alachlor	ND	0.010	
01/27/2023	Aldrin	ND	0.010		01/27/2023	Ametryn	ND	0.010	
01/27/2023	Aspon	ND	0.010		01/27/2023	h-BHC	ND	0.010	
01/27/2023	Benfluralin	ND	0.010		01/27/2023	Bifenthrin	ND	0.010	
01/27/2023	Bromopropylate	ND	0.010		01/27/2023	Buprofezin	ND	0.010	
01/27/2023	Captan	ND	0.20		01/27/2023	Chlordane	ND	0.010	
01/27/2023	Chlorfenvinphos	ND	0.010		01/27/2023	Chlorobenzilate	ND	0.010	
01/27/2023	Chloroneb	ND	0.010		01/27/2023	Chlorothalonil	ND	0.010	
01/27/2023	Chlorpropham	ND	0.010		01/27/2023	Chlorpyrifos	ND	0.010	
01/27/2023	Chlorpyrifos-methyl	ND	0.010		01/27/2023	cis-Nonachlor	ND	0.010	
01/27/2023	Cyfluthrin	ND	0.050		01/27/2023	Cypermethrin	ND	0.050	
01/27/2023	Dacthal	ND	0.010		01/27/2023	d-BHC	ND	0.010	
01/27/2023	Deltamethrin	ND	0.050		01/27/2023	Demeton	ND	0.010	
01/27/2023	Diazinon	ND	0.010		01/27/2023	Dichlobenil	ND	0.010	
01/27/2023	Dichlorofenthion	ND	0.010		01/27/2023	Dichlorvos	ND	0.010	
01/27/2023	Diclofop-methyl	ND	0.010		01/27/2023	Dicloran	ND	0.050	
01/27/2023	Dicofol	ND	0.010		01/27/2023	Dieldrin	ND	0.010	
01/27/2023	Dimethenamid	ND	0.010		01/27/2023	Diphenamid	ND	0.010	
01/27/2023	Diphenylamine	ND	0.010		01/27/2023	Disulfoton	ND	0.010	
01/27/2023	Dithiopyr	ND	0.010		01/27/2023	Endosulfan I	ND	0.020	
01/27/2023	Endosulfan II	ND	0.020		01/27/2023	Endosulfan sulfate	ND	0.020	
01/27/2023	Endrin	ND	0.010		01/27/2023	Endrin aldehyde	ND	0.010	
01/27/2023	Endrin ketone	ND	0.010		01/27/2023	EPN	ND	0.010	
01/27/2023	EPTC	ND	0.020		01/27/2023	Esfenvalerate	ND	0.010	
01/27/2023	Ethalfuralin	ND	0.010		01/27/2023	Ethofumesate	ND	0.010	
01/27/2023	Ethoprop	ND	0.010		01/27/2023	Ethoxyquin	ND	0.010	
01/27/2023	Etoxazole	ND	0.010		01/27/2023	Etridiazole	ND	0.010	
01/27/2023	Fenarimol	ND	0.010		01/27/2023	Fenitrothion	ND	0.010	
01/27/2023	Fenoxprop-ethyl	ND	0.010		01/27/2023	Fenthion	ND	0.010	
01/27/2023	Fenvalerate	ND	0.010		01/27/2023	Fipronil	ND	0.010	
01/27/2023	Fluazifop-p-butyl	ND	0.010		01/27/2023	Fludioxonil	ND	0.010	
01/27/2023	Fluroxypyr-methyl	ND	0.010		01/27/2023	Flutolanil	ND	0.010	
01/27/2023	g-BHC	ND	0.010		01/27/2023	Heptachlor	ND	0.010	

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AOAC 2007.01 (GC-MS/MS) (Continued)									
01/27/2023	Heptachlor epoxide	ND	0.010		01/27/2023	Hexachlorobenzene	ND	0.010	
01/27/2023	Kresoxim-methyl	ND	0.010		01/27/2023	lambda-Cyhalothrin	ND	0.020	
01/27/2023	Leptophos	ND	0.010		01/27/2023	Malathion	ND	0.010	
01/27/2023	Mefenoxam	ND	0.010		01/27/2023	Methoxychlor	ND	0.010	
01/27/2023	Metolachlor	ND	0.010		01/27/2023	MGK-264	ND	0.010	
01/27/2023	Myclobutanil	ND	0.010		01/27/2023	Napropamide	ND	0.010	
01/27/2023	o-Phenylphenol	ND	0.010		01/27/2023	Ovex	ND	0.010	
01/27/2023	Oxadiazon	ND	0.010		01/27/2023	Oxyfluorfen	ND	0.010	
01/27/2023	p,p'-DDD	ND	0.010		01/27/2023	p,p'-DDE	ND	0.010	
01/27/2023	p,p'-DDT	ND	0.010		01/27/2023	Pacllobutrazol	ND	0.010	
01/27/2023	Parathion	ND	0.010		01/27/2023	Parathion-methyl	ND	0.010	
01/27/2023	PCA	ND	0.010		01/27/2023	PCB	ND	0.010	
01/27/2023	PCNB	ND	0.010		01/27/2023	Pendimethalin	ND	0.010	
01/27/2023	Pentachloroanisole	ND	0.010		01/27/2023	Permethrin	ND	0.050	
01/27/2023	Phorate	ND	0.010		01/27/2023	Procymidone	ND	0.010	
01/27/2023	Prodiamine	ND	0.010		01/27/2023	Pronamide	ND	0.010	
01/27/2023	Propachlor	ND	0.010		01/27/2023	Pyriproxyfen	ND	0.010	
01/27/2023	Quinoxifen	ND	0.010		01/27/2023	Ronnel	ND	0.010	
01/27/2023	Spirodiclofen	ND	0.010		01/27/2023	Sulfotep	ND	0.010	
01/27/2023	Tefluthrin	ND	0.010		01/27/2023	Terbufos	ND	0.010	
01/27/2023	Tetraconazole	ND	0.010		01/27/2023	Tetradifen	ND	0.010	
01/27/2023	Thionazin	ND	0.010		01/27/2023	Tokuthion	ND	0.010	
01/27/2023	trans-Nonachlor	ND	0.010		01/27/2023	Trichloronate	ND	0.010	
01/27/2023	Trifluralin	ND	0.010		01/27/2023	Vinclozalin	ND	0.010	

JAQAC Method, Vol. 78, #5 (GC-FPD)

02/09/2023 Mancozeb ND 0.10

JOAFC Method, Vol. 29, 1980

02/08/2023 Maleic Hydrazide 3.4 mg/kg 1.0

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Analysis				Analysis			
Date	Analyte	Amount Detected	LOQ (mg/kg)	Date	Analyte	Amount Detected	LOQ (mg/kg)
AOAC 2007.01 (LC-MS/MS)							
02/06/2023	Oxathiapiprolin	ND	0.010				

Notes and Definitions

Notes	Definition
LOQ	Limit of Quantitation
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.
Reports should not be reproduced, except in full, without written approval from PAL.
PAL is accredited to ISO/IEC 17025:2017 Standard, by ANAB, Accreditation #AT-2875, Testing.

Rick Jordan, Laboratory Director