



Northwest Onion Company

11235 Portland Road NE
Brooks, OR 97305

Client Sample ID: Red Onion
PAL Sample ID: P202899-01
Sample Type: Onion

Report Number: P202899
Report Date: October 26, 2020
Client Project ID:

Sample Date: 10/15/2020
Received Date: 10/15/2020
Extraction Date: 10/19/2020

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.



Northwest Onion Company

11235 Portland Road NE
Brooks, OR 97305

Report Number: P202899
Report Date: October 26, 2020
Client Project ID:

Client Sample ID: Red Onion
PAL Sample ID: P202899-01
Sample Type: Onion

Sample Date: 10/15/2020
Received Date: 10/15/2020
Extraction Date: 10/19/2020

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)									
10/19/2020	3-Hydroxycarbofuran	ND	0.010		10/19/2020	Abamectin	ND	0.010	
10/19/2020	Acephate	ND	0.010		10/19/2020	Acetamiprid	ND	0.010	
10/19/2020	Acibenzolar-S-methyl	ND	0.020		10/19/2020	Afidopyropen	ND	0.050	
10/19/2020	Aldicarb	ND	0.010		10/19/2020	Aldicarb Sulfone	ND	0.010	
10/19/2020	Aldicarb Sulfoxide	ND	0.010		10/19/2020	Allethrin	ND	0.010	
10/19/2020	Ametoctradin	ND	0.010		10/19/2020	Atrazine	ND	0.010	
10/19/2020	Azinphos-ethyl	ND	0.010		10/19/2020	Azinphos-methyl	ND	0.020	
10/19/2020	Azoxystrobin	ND	0.010		10/19/2020	Bendiocarb	ND	0.010	
10/19/2020	Bensulfuron methyl	ND	0.010		10/19/2020	Bensulide	ND	0.010	
10/19/2020	Bicyclopyrone	ND	0.010		10/19/2020	Bifenazate	ND	0.010	
10/19/2020	Bispyribac-sodium	ND	0.010		10/19/2020	Bitertanol	ND	0.010	
10/19/2020	Boscalid	ND	0.010		10/19/2020	Bromacil	ND	0.010	
10/19/2020	Carbaryl	ND	0.010		10/19/2020	Carbendazim	ND	0.010	
10/19/2020	Carbofuran	ND	0.010		10/19/2020	Carboxin	ND	0.010	
10/19/2020	Carfentrazone-ethyl	ND	0.010		10/19/2020	Chlorantraniliprole	ND	0.010	
10/19/2020	Chlorimuron-ethyl	ND	0.010		10/19/2020	Clethodim	ND	0.020	
10/19/2020	Clofentezine	ND	0.010		10/19/2020	Clomazone	ND	0.010	
10/19/2020	Cloransulam-methyl	ND	0.010		10/19/2020	Clothianidin	ND	0.010	
10/19/2020	Cyanazine	ND	0.010		10/19/2020	Cyantraniliprole	ND	0.010	
10/19/2020	Cyazofamid	ND	0.010		10/19/2020	Cyclaniliprole	ND	0.050	
10/19/2020	Cycloate	ND	0.020		10/19/2020	Cyflufenamid	ND	0.010	
10/19/2020	Cyflumetofen	ND	0.010		10/19/2020	Cyhalofop-butyl	ND	0.050	
10/19/2020	Cymoxanil	ND	0.010		10/19/2020	Cyprodinil	ND	0.010	
10/19/2020	Cyprosulfamide	ND	0.010		10/19/2020	Cyromazine	ND	0.010	
10/19/2020	DCPMU	ND	0.010		10/19/2020	Diazoxon	ND	0.010	
10/19/2020	Difenoconazole	ND	0.010		10/19/2020	Diflubenzuron	ND	0.010	
10/19/2020	Diiflufenican	ND	0.010		10/19/2020	Dimethoate	ND	0.010	
10/19/2020	Dimethomorph	ND	0.010		10/19/2020	Dinotefuran	ND	0.010	
10/19/2020	Dioxathion	ND	0.010		10/19/2020	Disulfoton sulfone	ND	0.010	
10/19/2020	Diuron	ND	0.010		10/19/2020	Dodine	ND	0.010	
10/19/2020	d-Phenothrin	ND	0.010		10/19/2020	Emamectin Benzoate	ND	0.010	
10/19/2020	Ethion	ND	0.010		10/19/2020	Famoxadone	ND	0.010	
10/19/2020	Famphur	ND	0.010		10/19/2020	Fenamidone	ND	0.010	
10/19/2020	Fenamiphos sulfone	ND	0.010		10/19/2020	Fenamiphos sulfoxide	ND	0.010	
10/19/2020	Fenazaquin	ND	0.010		10/19/2020	Fenbuconazole	ND	0.010	
10/19/2020	Fenbutatin oxide	ND	0.010		10/19/2020	Fenhexamid	ND	0.010	
10/19/2020	Fenobucarb	ND	0.010		10/19/2020	Fenoxycarb	ND	0.010	
10/19/2020	Fenpropathrin	ND	0.010		10/19/2020	Fenpyroximate	ND	0.010	
10/19/2020	Fenuron	ND	0.010		10/19/2020	Fonicamid	ND	0.010	
10/19/2020	Fluazinam	ND	0.010		10/19/2020	Flubendiamide	ND	0.020	



Northwest Onion Company

11235 Portland Road NE
Brooks, OR 97305

Client Sample ID: Red Onion
PAL Sample ID: P202899-01
Sample Type: Onion

Report Number: P202899
Report Date: October 26, 2020
Client Project ID:

Sample Date: 10/15/2020
Received Date: 10/15/2020
Extraction Date: 10/19/2020

**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 (LC-MS/MS) (Continued)									
10/19/2020	Flufenacet	ND	0.010		10/19/2020	Flumioxazin	ND	0.010	
10/19/2020	Fluometuron	ND	0.010		10/19/2020	Fluopicolide	ND	0.010	
10/19/2020	Fluopyram	ND	0.010		10/19/2020	Fluoxastrobin	ND	0.010	
10/19/2020	Flupyradifurone	ND	0.010		10/19/2020	Fluridone	ND	0.010	
10/19/2020	Flutianil	ND	0.010		10/19/2020	Flutriafol	ND	0.010	
10/19/2020	Fluvalinate	ND	0.010		10/19/2020	Fluxapyroxad	ND	0.010	
10/19/2020	Fomesafen	ND	0.010		10/19/2020	Fonofos	ND	0.020	
10/19/2020	Formetanate HCl	ND	0.010		10/19/2020	Hexaconazole	ND	0.010	
10/19/2020	Hexazinone	ND	0.010		10/19/2020	Hexythiazox	ND	0.010	
10/19/2020	Imazalil	ND	0.010		10/19/2020	Imidacloprid	ND	0.010	
10/19/2020	Indaziflam	ND	0.010		10/19/2020	Indoxacarb	ND	0.010	
10/19/2020	Iodosulfuron-methyl	ND	0.010		10/19/2020	Ipcconazole	ND	0.010	
10/19/2020	Iprodione	ND	0.050		10/19/2020	Isofetamid	ND	0.010	
10/19/2020	Isoxaben	ND	0.010		10/19/2020	Isoxadifen-ethyl	ND	0.010	
10/19/2020	Lactofen	ND	0.010		10/19/2020	Linuron	ND	0.010	
10/19/2020	Malaoxon	ND	0.010		10/19/2020	Mandipropamid	ND	0.010	
10/19/2020	Metconazole	ND	0.010		10/19/2020	Methamidophos	ND	0.020	
10/19/2020	Methidathion	ND	0.010		10/19/2020	Methiocarb	ND	0.010	
10/19/2020	Methomyl	ND	0.010		10/19/2020	Methoxyfenozide	ND	0.010	
10/19/2020	Metrafenone	ND	0.010		10/19/2020	Metribuzin	ND	0.010	
10/19/2020	Metsulfuron methyl	ND	0.010		10/19/2020	Mevinphos	ND	0.010	
10/19/2020	Neburon	ND	0.010		10/19/2020	Nicosulfuron	ND	0.010	
10/19/2020	Norflurazon	ND	0.010		10/19/2020	Novaluron	ND	0.010	
10/19/2020	Omethoate	ND	0.010		10/19/2020	Oryzalin	ND	0.010	
10/19/2020	Oxadixyl	ND	0.010		10/19/2020	Oxamyl	ND	0.010	
10/19/2020	Oxydemeton-Methyl	ND	0.010		10/19/2020	Penoxsulam	ND	0.010	
10/19/2020	Penthiopyrad	ND	0.010		10/19/2020	Phorate Sulfone	ND	0.010	
10/19/2020	Phorate Sulfoxide	ND	0.010		10/19/2020	Phosalone	ND	0.010	
10/19/2020	Phosmet	ND	0.010		10/19/2020	Phosphamidon	ND	0.010	
10/19/2020	Picoxystrobin	ND	0.010		10/19/2020	Piperonyl Butoxide	ND	0.010	
10/19/2020	Pirimicarb	ND	0.010		10/19/2020	Pirimiphos-methyl	ND	0.010	
10/19/2020	Prallethrin	ND	0.010		10/19/2020	Prometon	ND	0.010	
10/19/2020	Prometryn	ND	0.010		10/19/2020	Propanil	ND	0.020	
10/19/2020	Propargite	ND	0.010		10/19/2020	Propazine	ND	0.010	
10/19/2020	Propiconazole	ND	0.020		10/19/2020	Propoxur	ND	0.010	
10/19/2020	Prothioconazole	ND	0.020		10/19/2020	Pymetrozine	ND	0.010	
10/19/2020	Pyraclostrobin	ND	0.010		10/19/2020	Pyraflufen-ethyl	ND	0.010	
10/19/2020	Pyrasulfotole	ND	0.010		10/19/2020	Pyrethrin	ND	0.050	
10/19/2020	Pyridaben	ND	0.010		10/19/2020	Pyridalyl	ND	0.010	
10/19/2020	Pyrimethanil	ND	0.010		10/19/2020	Pyroxasulfone	ND	0.010	



Northwest Onion Company

11235 Portland Road NE
Brooks, OR 97305

Report Number: P202899

Report Date: October 26, 2020

Client Project ID:

Client Sample ID: Red Onion

Sample Date: 10/15/2020

PAL Sample ID: P202899-01

Received Date: 10/15/2020

Sample Type: Onion

Extraction Date: 10/19/2020

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 (LC-MS/MS) (Continued)									
10/19/2020	Quizalofop-p-ethyl	ND	0.010		10/19/2020	Rotenone	ND	0.010	
10/19/2020	Saflufenacil	ND	0.010		10/19/2020	Sethoxydim	ND	0.020	
10/19/2020	Siduron	ND	0.010		10/19/2020	Simazine	ND	0.010	
10/19/2020	Simetryn	ND	0.010		10/19/2020	Spinetoram	ND	0.010	
10/19/2020	Spinosad	ND	0.010		10/19/2020	Spiromesifen	ND	0.020	
10/19/2020	Spirotetramat	ND	0.010		10/19/2020	Spiroxamine	ND	0.010	
10/19/2020	Sulfentrazone	ND	0.010		10/19/2020	Sulfometuron-methyl	ND	0.010	
10/19/2020	Sulfoxaflor	ND	0.010		10/19/2020	Tebuconazole	ND	0.010	
10/19/2020	Tebufenozide	ND	0.010		10/19/2020	Tebuthiuron	ND	0.010	
10/19/2020	Terbacil	ND	0.010		10/19/2020	Terbuthylazine	ND	0.010	
10/19/2020	Terbutryn	ND	0.010		10/19/2020	Thiabendazole	ND	0.010	
10/19/2020	Thiacloprid	ND	0.010		10/19/2020	Thiamethoxam	ND	0.010	
10/19/2020	Thiencarbazone-methyl	ND	0.020		10/19/2020	Thifensulfuron-methyl	ND	0.010	
10/19/2020	Thiobencarb	ND	0.010		10/19/2020	Thiodicarb	ND	0.010	
10/19/2020	Thiophanate methyl	ND	0.010		10/19/2020	Tolfenpyrad	ND	0.010	
10/19/2020	Triadimefon	ND	0.010		10/19/2020	Triadimenol	ND	0.020	
10/19/2020	Triallate	ND	0.020		10/19/2020	Trifloxystrobin	ND	0.010	
10/19/2020	Trifloxysulfuron-sodium	ND	0.010		10/19/2020	Triflumizole	ND	0.010	
10/19/2020	Trinexapac-ethyl	ND	0.010		10/19/2020	Triticonazole	ND	0.010	
AOAC 2007.01 (GC-MS/MS)									
10/19/2020	2,6-Dichlorobenzamide	ND	0.010		10/19/2020	a-BHC	ND	0.010	
10/19/2020	Acetochlor	ND	0.010		10/19/2020	Alachlor	ND	0.010	
10/19/2020	Aldrin	ND	0.010		10/19/2020	Ametryn	ND	0.010	
10/19/2020	Aspon	ND	0.010		10/19/2020	b-BHC	ND	0.010	
10/19/2020	Benfluralin	ND	0.010		10/19/2020	Bifenthrin	ND	0.010	
10/19/2020	Bromopropylate	ND	0.010		10/19/2020	Buprofezin	ND	0.010	
10/19/2020	Captan	ND	0.20		10/19/2020	Chlordane	ND	0.010	
10/19/2020	Chlorfenvinphos	ND	0.010		10/19/2020	Chlorobenzilate	ND	0.010	
10/19/2020	Chloroneb	ND	0.010		10/19/2020	Chlorothalonil	ND	0.010	
10/19/2020	Chlorpropham	ND	0.010		10/19/2020	Chlorpyrifos	ND	0.010	
10/19/2020	Chlorpyrifos-methyl	ND	0.010		10/19/2020	cis-Nonachlor	ND	0.010	
10/19/2020	Cyfluthrin	ND	0.050		10/19/2020	Cypermethrin	ND	0.050	
10/19/2020	Dacthal	ND	0.010		10/19/2020	d-BHC	ND	0.010	
10/19/2020	Deltamethrin	ND	0.050		10/19/2020	Demeton	ND	0.010	
10/19/2020	Diazinon	ND	0.010		10/19/2020	Dichlobenil	ND	0.010	
10/19/2020	Dichlorofenthion	ND	0.010		10/19/2020	Dichlorvos	ND	0.010	
10/19/2020	Diclofop-methyl	ND	0.010		10/19/2020	Dicloran	ND	0.050	
10/19/2020	Dicofol	ND	0.010		10/19/2020	Dieldrin	ND	0.010	
10/19/2020	Dimethenamid	ND	0.010		10/19/2020	Diphenamid	ND	0.010	



Northwest Onion Company

11235 Portland Road NE
Brooks, OR 97305

Report Number: P202899

Report Date: October 26, 2020

Client Project ID:

Client Sample ID: Red Onion

Sample Date: 10/15/2020

PAL Sample ID: P202899-01

Received Date: 10/15/2020

Sample Type: Onion

Extraction Date: 10/19/2020

**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)									
10/19/2020	Diphenylamine	ND	0.010		10/19/2020	Disulfoton	ND	0.010	
10/19/2020	Dithiopyr	ND	0.010		10/19/2020	Endosulfan I	ND	0.020	
10/19/2020	Endosulfan II	ND	0.020		10/19/2020	Endosulfan sulfate	ND	0.020	
10/19/2020	Endrin	ND	0.010		10/19/2020	Endrin aldehyde	ND	0.010	
10/19/2020	Endrin ketone	ND	0.010		10/19/2020	EPN	ND	0.010	
10/19/2020	EPTC	ND	0.020		10/19/2020	Esfenvalerate	ND	0.010	
10/19/2020	Ethalfuralin	ND	0.010		10/19/2020	Ethofumesate	ND	0.010	
10/19/2020	Ethoprop	ND	0.010		10/19/2020	Ethoxyquin	ND	0.010	
10/19/2020	Etoxazole	ND	0.010		10/19/2020	Etridiazole	ND	0.010	
10/19/2020	Fenarimol	ND	0.010		10/19/2020	Fenitrothion	ND	0.010	
10/19/2020	Fenoxaprop-ethyl	ND	0.010		10/19/2020	Fenthion	ND	0.010	
10/19/2020	Fenvalerate	ND	0.010		10/19/2020	Fipronil	ND	0.010	
10/19/2020	Fluazifop-p-butyl	ND	0.010		10/19/2020	Fludioxonil	ND	0.010	
10/19/2020	Fluroxypyr-meptyl	ND	0.010		10/19/2020	Flutolanil	ND	0.010	
10/19/2020	g-BHC	ND	0.010		10/19/2020	Heptachlor	ND	0.010	
10/19/2020	Heptachlor epoxide	ND	0.010		10/19/2020	Hexachlorobenzene	ND	0.010	
10/19/2020	Kresoxim-methyl	ND	0.010		10/19/2020	lambda-Cyhalothrin	ND	0.020	
10/19/2020	Leptophos	ND	0.010		10/19/2020	Malathion	ND	0.010	
10/19/2020	Mefenoxam	ND	0.010		10/19/2020	Methoxychlor	ND	0.010	
10/19/2020	Metolachlor	ND	0.010		10/19/2020	MGK-264	ND	0.010	
10/19/2020	Myclobutanil	ND	0.010		10/19/2020	Napropamide	ND	0.010	
10/19/2020	o-Phenylphenol	ND	0.010		10/19/2020	Ovex	ND	0.010	
10/19/2020	Oxadiazon	ND	0.010		10/19/2020	Oxyfluorfen	ND	0.010	
10/19/2020	p,p'-DDD	ND	0.010		10/19/2020	p,p'-DDE	ND	0.010	
10/19/2020	p,p'-DDT	ND	0.010		10/19/2020	Pacllobutrazol	ND	0.010	
10/19/2020	Parathion	ND	0.010		10/19/2020	Parathion-methyl	ND	0.010	
10/19/2020	PCA	ND	0.010		10/19/2020	PCB	ND	0.010	
10/19/2020	PCNB	ND	0.010		10/19/2020	Pendimethalin	ND	0.010	
10/19/2020	Pentachlorothioanisole	ND	0.010		10/19/2020	Permethrin	ND	0.050	
10/19/2020	Phorate	ND	0.010		10/19/2020	Procymidone	ND	0.010	
10/19/2020	Prodiamine	ND	0.010		10/19/2020	Pronamide	ND	0.010	
10/19/2020	Propachlor	ND	0.010		10/19/2020	Pyriproxyfen	ND	0.010	
10/19/2020	Quinoxifen	ND	0.010		10/19/2020	Ronnel	ND	0.010	
10/19/2020	Spirodiclofen	ND	0.010		10/19/2020	Sulfotep	ND	0.010	
10/19/2020	Tefluthrin	ND	0.010		10/19/2020	Terbufos	ND	0.010	
10/19/2020	Tetraconazole	ND	0.010		10/19/2020	Tetradifon	ND	0.010	
10/19/2020	Thionazin	ND	0.010		10/19/2020	Tokuthion	ND	0.010	
10/19/2020	trans-Nonachlor	ND	0.010		10/19/2020	Trichloronate	ND	0.010	
10/19/2020	Trifluralin	ND	0.010		10/19/2020	Vinclozalin	ND	0.010	



Northwest Onion Company

11235 Portland Road NE
Brooks, OR 97305

Client Sample ID: Red Onion
PAL Sample ID: P202899-01
Sample Type: Onion

Report Number: P202899
Report Date: October 26, 2020
Client Project ID:

Sample Date: 10/15/2020
Received Date: 10/15/2020
Extraction Date: 10/19/2020

Notes and Definitions

<u>Notes</u>	<u>Definition</u>
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.
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.