



American College Of Healthcare Sciences
5005 S. Macadam Ave
Portland, OR 97239

Report Number: P260152
Report Date: February 25, 2026
Client Project ID: EO Samples

Client Sample ID: Sweet orange 52331R
PAL Sample ID: P260152-01

Sample Date: 02/11/2026
Received Date: 02/19/2026
Extraction Date: 02/19/2026

Certificate of Analysis Results Summary

Analyte	Amount Detected	Limit of Quantitation
Pesticides	ND	See COA

Analysis Date	Analyte	Amount Detected	LOQ (mg/kg)	Notes	Analysis Date	Analyte	Amount Detected	LOQ (mg/kg)	Notes
Modified EPA 8270D (GC-MS/MS)									
02/20/2026	2,6-Dichlorobenzamide	ND	0.50		02/20/2026	a-BHC	ND	0.50	
02/20/2026	Acetochlor	ND	0.50		02/20/2026	Alachlor	ND	0.50	
02/20/2026	Aldrin	ND	0.50		02/20/2026	Ametryn	ND	0.50	
02/20/2026	Aspon	ND	0.50		02/20/2026	b-BHC	ND	0.50	
02/20/2026	Benfluralin	ND	0.50		02/20/2026	Bifenthrin	ND	0.50	
02/20/2026	Bromopropylate	ND	0.50		02/20/2026	Buprofezin	ND	0.50	
02/20/2026	Captan	ND	10		02/20/2026	Chlordane	ND	0.50	
02/20/2026	Chlorfenvinphos	ND	0.50		02/20/2026	Chlorobenzilate	ND	0.50	
02/20/2026	Chloroneb	ND	0.50		02/20/2026	Chlorothalonil	ND	0.50	
02/20/2026	Chlorpropham	ND	0.50		02/20/2026	Chlorpyrifos	ND	0.50	
02/20/2026	Chlorpyrifos-methyl	ND	0.50		02/20/2026	cis-Nonachlor	ND	0.50	
02/20/2026	Cyfluthrin	ND	2.5		02/20/2026	Cypermethrin	ND	2.5	
02/20/2026	Dacthal	ND	0.50		02/20/2026	d-BHC	ND	0.50	
02/20/2026	Deltamethrin	ND	2.5		02/20/2026	Demeton	ND	0.50	
02/20/2026	Diazinon	ND	0.50		02/20/2026	Dichlobenil	ND	0.50	
02/20/2026	Dichlorofenthion	ND	0.50		02/20/2026	Dichlorvos	ND	0.50	
02/20/2026	Diclofop-methyl	ND	0.50		02/20/2026	Dicloran	ND	2.5	
02/20/2026	Dicofol	ND	0.50		02/20/2026	Dieldrin	ND	0.50	
02/20/2026	Dimethenamid	ND	0.50		02/20/2026	Diphenamid	ND	0.50	
02/20/2026	Diphenylamine	ND	0.50		02/20/2026	Disulfoton	ND	0.50	
02/20/2026	Dithiopyr	ND	0.50		02/20/2026	Endosulfan I	ND	1.0	
02/20/2026	Endosulfan II	ND	1.0		02/20/2026	Endosulfan sulfate	ND	1.0	
02/20/2026	Endrin	ND	0.50		02/20/2026	Endrin aldehyde	ND	0.50	
02/20/2026	Endrin ketone	ND	0.50		02/20/2026	EPN	ND	0.50	
02/20/2026	EPTC	ND	0.50		02/20/2026	Esfenvalerate	ND	0.50	
02/20/2026	Ethalfuralin	ND	0.50		02/20/2026	Ethofumesate	ND	0.50	

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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
Modified EPA 8270D (GC-MS/MS) (Continued)									
02/20/2026	Ethoprop	ND	0.50		02/20/2026	Ethoxyquin	ND	0.50	
02/20/2026	Ettoxazole	ND	0.50		02/20/2026	Etridiazole	ND	0.50	
02/20/2026	Fenarimol	ND	0.50		02/20/2026	Fenitrothion	ND	0.50	
02/20/2026	Fenoxaprop-ethyl	ND	0.50		02/20/2026	Fenthion	ND	0.50	
02/20/2026	Fenvalerate	ND	0.50		02/20/2026	Fipronil	ND	0.50	
02/20/2026	Fluazifop-p-butyl	ND	0.50		02/20/2026	Fludioxonil	ND	0.50	
02/20/2026	Fluroxyppy-meptyl	ND	0.50		02/20/2026	Flutolanil	ND	0.50	
02/20/2026	g-BHC	ND	0.50		02/20/2026	Heptachlor	ND	0.50	
02/20/2026	Heptachlor epoxide	ND	0.50		02/20/2026	Hexachlorobenzene	ND	0.50	
02/20/2026	Kresoxim-methyl	ND	0.50		02/20/2026	lambda-Cyhalothrin	ND	1.0	
02/20/2026	Leptophos	ND	0.50		02/20/2026	Malathion	ND	0.50	
02/20/2026	Mefenoxam	ND	0.50		02/20/2026	Methoxychlor	ND	0.50	
02/20/2026	Metolachlor	ND	0.50		02/20/2026	MGK-264	ND	0.50	
02/20/2026	Myclobutanil	ND	0.50		02/20/2026	Napropamide	ND	0.50	
02/20/2026	o-Phenylphenol	ND	0.50		02/20/2026	Ovex	ND	0.50	
02/20/2026	Oxadiazon	ND	0.50		02/20/2026	Oxyfluorfen	ND	0.50	
02/20/2026	p,p'-DDD	ND	0.50		02/20/2026	p,p'-DDE	ND	0.50	
02/20/2026	p,p'-DDT	ND	0.50		02/20/2026	Paclobutrazol	ND	0.50	
02/20/2026	Parathion	ND	0.50		02/20/2026	Parathion-methyl	ND	0.50	
02/20/2026	PCA	ND	0.50		02/20/2026	PCB	ND	0.50	
02/20/2026	PCNB	ND	0.50		02/20/2026	Pendimethalin	ND	0.50	
02/20/2026	Pentachlorothioanisole	ND	0.50		02/20/2026	Permethrin	ND	2.5	
02/20/2026	Phorate	ND	0.50		02/20/2026	Procymidone	ND	0.50	
02/20/2026	Prodiamine	ND	0.50		02/20/2026	Pronamide	ND	0.50	
02/20/2026	Propachlor	ND	0.50		02/20/2026	Pyriproxyfen	ND	0.50	
02/20/2026	Quinoxifen	ND	0.50		02/20/2026	Ronnel	ND	0.50	
02/20/2026	Spirodiclofen	ND	0.50		02/20/2026	Sulfotep	ND	0.50	
02/20/2026	Tefluthrin	ND	0.50		02/20/2026	Terbufos	ND	0.50	
02/20/2026	Tetraconazole	ND	0.50		02/20/2026	Tetradifon	ND	0.50	
02/20/2026	Thionazin	ND	0.50		02/20/2026	Tokuthion	ND	0.50	
02/20/2026	trans-Nonachlor	ND	0.50		02/20/2026	Trichloronate	ND	0.50	
02/20/2026	Trifluralin	ND	0.50		02/20/2026	Vinclozalin	ND	0.50	
Modified EPA 8321B (HPLC MS-MS)									
02/20/2026	3-Hydroxycarbofuran	ND	0.50		02/20/2026	Abamectin	ND	0.50	
02/20/2026	Acephate	ND	0.50		02/20/2026	Acetamiprid	ND	0.50	
					02/20/2026	Acibenzolar-S-methyl	ND	1.0	

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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
Modified EPA 8321B (HPLC MS-MS) (Continued)									
02/20/2026	Aldicarb	ND	0.50		02/20/2026	Aldicarb Sulfone	ND	0.50	
02/20/2026	Aldicarb Sulfoxide	ND	0.50		02/20/2026	Allethrin	ND	0.50	
02/20/2026	Ametoctradin	ND	0.50		02/20/2026	Atrazine	ND	0.50	
02/20/2026	Azinphos-ethyl	ND	0.50		02/20/2026	Azinphos-methyl	ND	1.0	
02/20/2026	Azoxystrobin	ND	0.50		02/20/2026	Bendiocarb	ND	0.50	
02/20/2026	Bensulide	ND	0.50		02/20/2026	Bifenazate	ND	0.50	
02/20/2026	Bitertanol	ND	0.50		02/20/2026	Boscalid	ND	0.50	
02/20/2026	Bromacil	ND	0.50		02/20/2026	Carbaryl	ND	0.50	
02/20/2026	Carbendazim	ND	0.50		02/20/2026	Carbofuran	ND	0.50	
02/20/2026	Carfentrazone-ethyl	ND	0.50		02/20/2026	Chlorantraniliprole	ND	0.50	
02/20/2026	Clethodim	ND	1.0		02/20/2026	Clofentezine	ND	0.50	
02/20/2026	Clothianidin	ND	0.50		02/20/2026	Cyanazine	ND	0.50	
02/20/2026	Cyantraniliprole	ND	0.50		02/20/2026	Cyazofamid	ND	0.50	
02/20/2026	Cycloate	ND	1.0		02/20/2026	Cyflufenamid	ND	0.50	
02/20/2026	Cyflumetofen	ND	0.50		02/20/2026	Cymoxanil	ND	0.50	
02/20/2026	Cyprodinil	ND	0.50		02/20/2026	Cyromazine	ND	0.50	
02/20/2026	DCPMU	ND	0.50		02/20/2026	Diazoxon	ND	0.50	
02/20/2026	Difenoconazole	ND	0.50		02/20/2026	Diflubenzuron	ND	0.50	
02/20/2026	Dimethoate	ND	0.50		02/20/2026	Dimethomorph	ND	0.50	
02/20/2026	Dinotefuran	ND	0.50		02/20/2026	Disulfoton sulfone	ND	0.50	
02/20/2026	Diuron	ND	0.50		02/20/2026	Dodine	ND	0.50	
02/20/2026	d-Phenothrin	ND	0.50		02/20/2026	Emamectin Benzoate	ND	0.50	
02/20/2026	Ethion	ND	0.50		02/20/2026	Famoxadone	ND	0.50	
02/20/2026	Famphur	ND	0.50		02/20/2026	Fenamidone	ND	0.50	
02/20/2026	Fenamiphos sulfone	ND	0.50		02/20/2026	Fenamiphos sulfoxide	ND	0.50	
02/20/2026	Fenazaquin	ND	0.50		02/20/2026	Fenbuconazole	ND	0.50	
02/20/2026	Fenbutatin oxide	ND	0.50		02/20/2026	Fenhexamid	ND	0.50	
02/20/2026	Fenobucarb	ND	0.50		02/20/2026	Fenpropathrin	ND	0.50	
02/20/2026	Fenpyroximate	ND	0.50		02/20/2026	Fenuron	ND	0.50	
02/20/2026	Flonicamid	ND	0.50		02/20/2026	Fluazinam	ND	0.50	
02/20/2026	Flubendiamide	ND	1.0		02/20/2026	Flumioxazin	ND	0.50	
02/20/2026	Fluometuron	ND	0.50		02/20/2026	Fluopicolide	ND	0.50	
02/20/2026	Fluopyram	ND	0.50		02/20/2026	Fluoxastrobin	ND	0.50	
02/20/2026	Flupyradifurone	ND	0.50		02/20/2026	Fluridone	ND	0.50	
02/20/2026	Flutriafol	ND	0.50		02/20/2026	Fluvalinate	ND	0.50	
02/20/2026	Fluxapyroxad	ND	0.50		02/20/2026	Fonofos	ND	1.0	

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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
Modified EPA 8321B (HPLC MS-MS) (Continued)									
02/20/2026	Formetanate HCl	ND	0.50		02/20/2026	Hexaconazole	ND	0.50	
02/20/2026	Hexazinone	ND	0.50		02/20/2026	Hexythiazox	ND	0.50	
02/20/2026	Imazalil	ND	0.50		02/20/2026	Imidacloprid	ND	0.50	
02/20/2026	Indaziflam	ND	0.50		02/20/2026	Indoxacarb	ND	0.50	
02/20/2026	Iprodione	ND	2.5		02/20/2026	Isoxaben	ND	0.50	
02/20/2026	Linuron	ND	0.50		02/20/2026	Malaoxon	ND	0.50	
02/20/2026	Mandipropamid	ND	0.50		02/20/2026	Metconazole	ND	0.50	
02/20/2026	Methamidophos	ND	1.0		02/20/2026	Methidathion	ND	0.50	
02/20/2026	Methiocarb	ND	0.50		02/20/2026	Methomyl	ND	0.50	
02/20/2026	Methoxyfenozide	ND	0.50		02/20/2026	Metrafenone	ND	0.50	
02/20/2026	Metribuzin	ND	0.50		02/20/2026	Mevinphos	ND	0.50	
02/20/2026	Norflurazon	ND	0.50		02/20/2026	Novaluron	ND	0.50	
02/20/2026	Omethoate	ND	0.50		02/20/2026	Oryzalin	ND	0.50	
02/20/2026	Oxadixyl	ND	0.50		02/20/2026	Oxamyl	ND	0.50	
02/20/2026	Oxathiapiprolin	ND	0.50		02/20/2026	Oxydemeton-Methyl	ND	0.50	
02/20/2026	Penthiopyrad	ND	0.50		02/20/2026	Phorate Sulfone	ND	0.50	
02/20/2026	Phorate Sulfoxide	ND	0.50		02/20/2026	Phosalone	ND	0.50	
02/20/2026	Phosmet	ND	0.50		02/20/2026	Phosphamidon	ND	0.50	
02/20/2026	Piperonyl Butoxide	ND	0.50		02/20/2026	Pirimicarb	ND	0.50	
02/20/2026	Pirimiphos-methyl	ND	0.50		02/20/2026	Prometon	ND	0.50	
02/20/2026	Prometryn	ND	0.50		02/20/2026	Propargite	ND	0.50	
02/20/2026	Propazine	ND	0.50		02/20/2026	Propiconazole	ND	1.0	
02/20/2026	Prothioconazole	ND	1.0		02/20/2026	Pymetrozine	ND	0.50	
02/20/2026	Pyraclostrobin	ND	0.50		02/20/2026	Pyraflufen-ethyl	ND	0.50	
02/20/2026	Pyrethrin	ND	2.5		02/20/2026	Pyridaben	ND	0.50	
02/20/2026	Pyrimethanil	ND	0.50		02/20/2026	Rotenone	ND	0.50	
02/20/2026	Saflufenacil	ND	0.50		02/20/2026	Sethoxydim	ND	1.0	
02/20/2026	Siduron	ND	0.50		02/20/2026	Simazine	ND	0.50	
02/20/2026	Simetryn	ND	0.50		02/20/2026	Spinetoram	ND	0.50	
02/20/2026	Spinosad	ND	0.50		02/20/2026	Spiromesifen	ND	1.0	
02/20/2026	Spirotetramat	ND	0.50		02/20/2026	Spiroxamine	ND	0.50	
02/20/2026	Sulfentrazone	ND	0.50		02/20/2026	Sulfoxaflor	ND	0.50	
02/20/2026	Tebuconazole	ND	0.50		02/20/2026	Tebufenozide	ND	0.50	
02/20/2026	Tebuthiuron	ND	0.50		02/20/2026	Terbacil	ND	0.50	
02/20/2026	Terbutylazine	ND	0.50		02/20/2026	Terbutryn	ND	0.50	
02/20/2026	Thiabendazole	ND	0.50		02/20/2026	Thiacloprid	ND	0.50	

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Certificate of Analysis (Continued)

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Modified EPA 8321B (HPLC MS-MS) (Continued)									
02/20/2026	Thiamethoxam	ND	0.50		02/20/2026	Thiobencarb	ND	0.50	
02/20/2026	Thiodicarb	ND	0.50		02/20/2026	Thiophanate methyl	ND	0.50	
02/20/2026	Tolfenpyrad	ND	0.50		02/20/2026	Triadimefon	ND	0.50	
02/20/2026	Triadimenol	ND	1.0		02/20/2026	Trifloxystrobin	ND	0.50	
02/20/2026	Triflumizole	ND	0.50						

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.

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