

Certification of Analysis

labservices@ionizationlabs.com 737.231.0772





Whole Organix LLC Houston, Texas 77018

Sample Information

Test Date:	Oct 14, 2020, 4:09 PM	Sample Type:	Topicals
Sample / Strain Name:	PK 1000 mg cream	IL Unique ID:	ILCTS387-2
Lot # / Batch ID:	12J2013B	•	
Sample Description:	White cream		
Notes:	Unit weight is 60 grams per 2 oz j	ar	
Analyst Name:	Enrique Orci IV	Paviower Name:	Tod Parton

Analyst Name:	Enrique Orci IV	
Analyst Signature:	Enrique Orci II	R

Reviewer Name:	Ted Barton
Reviewer Signature:	Id Barta

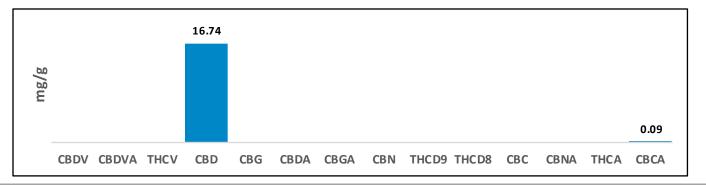
Cannabinoid Potency and Profile

Cannabinoid	Result (%)	Result (mg/g)	mg / 2 oz Jar
CBDV	N/D	N/D	N/D
CBDVA	N/D	N/D	N/D
THCV	N/D	N/D	N/D
CBD	1.67%	16.74	1004.34
CBG	N/D	N/D	N/D
CBDA	N/D	N/D	N/D
CBGA	N/D	N/D	N/D
CBN	N/D	N/D	N/D
THCD9	N/D	N/D	N/D
THCD8	N/D	N/D	N/D
CBC	N/D	N/D	N/D
CBNA	N/D	N/D	N/D
THCA	N/D	N/D	N/D
CBCA	0.01%	0.09	5.13
Totals	1.68%	16.82	1009.47



Total THC %	0.00%
Total THC mg / 2 oz Jar	0.00

Total CBD %	1.67%
Total CBD mg / 2 oz Jar	1004.34



THC Total = % of THCD9 + (% of THCA x 0.877), CBD Total = % of CBD + (% of CBDA x 0.877), CBG Total = % of CBG + (% of CBGA x 0.876), CBN Total = % of CBN + (% of CBNA x 0.876), CBC Total = % of CBC + (% of CBCA x 0.877), CBDV Total = % of CBDV + (% of CBDVA x 0.867), N/D = Not Detected

Testing results are based solely upon the samples submitted to Ionization Labs, LLC. Ionization Labs warrants that all analytical work is conducted in accordance with all applicable standard laboratory practices uisng validated methods. This report may not be reproduced without the written consent of Ionization Labs.

ISO 17025 Accredited
A2LA Certificate #: 5756.01
Texas Dept of Ag Account #: TL2020003





Report Number: 20-010672/D02.R00

Report Date: 10/08/2020 ORELAP#: OR100028

Purchase Order:

Received: 10/02/20 10:30

Customer: Deschutes Labs

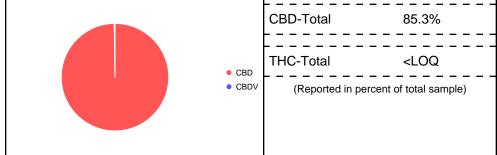
Product identity: 1060418-2020-DLF-47-TFD-01

Client/Metrc ID:

Laboratory ID: 20-010672-0001 Sample Date: 09/29/20 13:48

Summary

Potency: Result (%) Analyte CBD 85.3 CBDV[†] 0.179



Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.





Report Number: 20-010672/D02.R00

10/08/2020 Report Date: ORELAP#: OR100028

Purchase Order:

Received: 10/02/20 10:30

Customer: Deschutes Labs

Product identity: 1060418-2020-DLF-47-TFD-01

Client/Metrc ID:

Sample Date: 09/29/20 13:48 Laboratory ID: 20-010672-0001

Relinquished by: **UPS** Temp: 20.9 °C

Sample Results

Potency	Metho	d J AOAC	2015 V	98-6 (mod)	Batch: 2008206	Analyze: 10/5/20 7:17:00 PM
Analyte	As	Dry Lo	OQ	Notes		
	Received	weight				
CBC	< LOQ	0.0	0928			
CBC-A [†]	< LOQ	0.0	0928			
CBC-Total [†]	< LOQ	0.1	174			• CBD
CBD	85.3	0.9	928			• CBD
CBD-A	< LOQ	0.0	0928			GEEV
CBD-Total	85.3	1.0	01			
CBDV [†]	0.179	0.0	0928			
CBDV-A [†]	< LOQ	0.0	0928			
CBDV-Total [†]	0.179	0.1	173			
CBG [†]	< LOQ	0.0	0928			
CBG-A [†]	< LOQ	0.0	0928			
CBG-Total	< LOQ	0.1	173			
CBL [†]	< LOQ	0.0	928			
CBN	< LOQ	0.0	928			
$\Delta 8\text{-THC}^{\dagger}$	< LOQ	0.0	928			
Δ9-THC	< LOQ	0.0	0928			
THC-A	< LOQ	0.0	0928			
THC-Total	< LOQ	0.1	174			
THCV [†]	< LOQ	0.0	0928			
THCV-A [†]	< LOQ	0.0	0928			
THCV-Total [†]	< LOQ	0.1	173			
Total Cannabinoids	85.5					





20-010672/D02.R00 **Report Number:**

Report Date: 10/08/2020 ORELAP#: OR100028

Purchase Order:

10/02/20 10:30 Received:

Solvents	Method	EPA502	21A		Units µg/g Batch 20	008240	Analyz	e 10/0	7/20 09:10 AM
Analyte	Result	Limits	LOQ	Status Notes	Analyte	Result	Limits	LOQ	Status Notes
1,4-Dioxane	< LOQ	380	100	pass	2-Butanol	< LOQ	5000	200	pass
2-Ethoxyethanol	< LOQ	160	30.0	pass	2-Methylbutane	< LOQ		200	
2-Methylpentane	< LOQ		30.0		2-Propanol (IPA)	< LOQ	5000	200	pass
2,2-Dimethylbutane	< LOQ		30.0		2,2-Dimethylpropane	< LOQ		200	
2,3-Dimethylbutane	< LOQ		30.0		3-Methylpentane	< LOQ		30.0	
Acetone	< LOQ	5000	200	pass	Acetonitrile	< LOQ	410	100	pass
Benzene	< LOQ	2.00	1.00	pass	Butanes (sum)	< LOQ	5000	400	pass
Cyclohexane	< LOQ	3880	200	pass	Ethyl acetate	< LOQ	5000	200	pass
Ethyl benzene	< LOQ		200		Ethyl ether	< LOQ	5000	200	pass
Ethylene glycol	< LOQ	620	200	pass	Ethylene oxide	< LOQ	50.0	30.0	pass
Hexanes (sum)	< LOQ	290	150	pass	Isopropyl acetate	< LOQ	5000	200	pass
Isopropylbenzene	< LOQ	70.0	30.0	pass	m,p-Xylene	< LOQ		200	
Methanol	< LOQ	3000	200	pass	Methylene chloride	< LOQ	600	200	pass
Methylpropane	< LOQ		200		n-Butane	< LOQ		200	
n-Heptane	< LOQ	5000	200	pass	n-Hexane	< LOQ		30.0	
n-Pentane	< LOQ		200		o-Xylene	< LOQ		200	
Pentanes (sum)	< LOQ	5000	600	pass	Propane	< LOQ	5000	200	pass
Tetrahydrofuran	< LOQ	720	100	pass	Toluene	< LOQ	890	100	pass
Total Xylenes	< LOQ		400		Total Xylenes and Ethyl	< LOQ	2170	600	pass





20-010672/D02.R00 **Report Number:**

Report Date: 10/08/2020 ORELAP#: OR100028

Purchase Order:

Received: 10/02/20 10:30

Pesticides	Method	AOAC	2007.01 & EN	1 15662 (mod)	Units mg/kg Ba	atch 2008189	Analy	ze 10/05/20 05:32 PM
Analyte	Result	Limits	LOQ Status	Notes	Analyte	Result	Limits	LOQ Status Notes
Abamectin	< LOQ	0.50	0.250 pass		Acephate	< LOQ	0.40	0.250 pass
Acequinocyl	< LOQ	2.0	1.00 pass		Acetamiprid	< LOQ	0.20	0.100 pass
Aldicarb	< LOQ	0.40	0.200 pass		Azoxystrobin	< LOQ	0.20	0.100 pass
Bifenazate	< LOQ	0.20	0.100 pass		Bifenthrin	< LOQ	0.20	0.100 pass
Boscalid	< LOQ	0.40	0.200 pass		Carbaryl	< LOQ	0.20	0.100 pass
Carbofuran	< LOQ	0.20	0.100 pass		Chlorantraniliprole	e < LOQ	0.20	0.100 pass
Chlorfenapyr	< LOQ	1.0	0.500 pass		Chlorpyrifos	< LOQ	0.20	0.100 pass
Clofentezine	< LOQ	0.20	0.100 pass		Cyfluthrin	< LOQ	1.0	0.500 pass
Cypermethrin	< LOQ	1.0	0.500 pass		Daminozide	< LOQ	1.0	0.500 pass
Diazinon	< LOQ	0.20	0.100 pass		Dichlorvos	< LOQ	1.0	0.500 pass
Dimethoate	< LOQ	0.20	0.100 pass		Ethoprophos	< LOQ	0.20	0.100 pass
Etofenprox	< LOQ	0.40	0.200 pass		Etoxazole	< LOQ	0.20	0.100 pass
Fenoxycarb	< LOQ	0.20	0.100 pass		Fenpyroximate	< LOQ	0.40	0.200 pass
Fipronil	< LOQ	0.40	0.200 pass		Flonicamid	< LOQ	1.0	0.400 pass
Fludioxonil	< LOQ	0.40	0.200 pass		Hexythiazox	< LOQ	1.0	0.400 pass
lmazalil	< LOQ	0.20	0.100 pass		Imidacloprid	< LOQ	0.40	0.200 pass
Kresoxim-methyl	< LOQ	0.40	0.200 pass		Malathion	< LOQ	0.20	0.100 pass
Metalaxyl	< LOQ	0.20	0.100 pass		Methiocarb	< LOQ	0.20	0.100 pass
Methomyl	< LOQ	0.40	0.200 pass		MGK-264	< LOQ	0.20	0.100 pass
Myclobutanil	< LOQ	0.20	0.100 pass		Naled	< LOQ	0.50	0.250 pass
Oxamyl	< LOQ	1.0	0.500 pass		Paclobutrazole	< LOQ	0.40	0.200 pass
Parathion-Methyl	< LOQ	0.20	0.200 pass		Permethrin	< LOQ	0.20	0.100 pass
Phosmet	< LOQ	0.20	0.100 pass		Piperonyl butoxide	e < LOQ	2.0	1.00 pass
Prallethrin	< LOQ	0.20	0.200 pass		Propiconazole	< LOQ	0.40	0.200 pass
Propoxur	< LOQ	0.20	0.100 pass		Pyrethrin I (total)	< LOQ	1.0	0.500 pass
Pyridaben	< LOQ	0.20	0.100 pass		Spinosad	< LOQ	0.20	0.100 pass
Spiromesifen	< LOQ	0.20	0.100 pass		Spirotetramat	< LOQ	0.20	0.100 pass
Spiroxamine	< LOQ	0.40	0.200 pass		Tebuconazole	< LOQ	0.40	0.200 pass
Thiacloprid	< LOQ	0.20	0.100 pass		Thiamethoxam	< LOQ	0.20	0.100 pass
Trifloxystrobin	< LOQ	0.20	0.100 pass					

Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.0396	2008237	10/06/20	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.0396	2008237	10/06/20	AOAC 2013.06 (mod.)	X
Lead	< LOQ		mg/kg	0.0396	2008237	10/06/20	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.0198	2008237	10/06/20	AOAC 2013.06 (mod.)	X





Report Number: 20-010672/D02.R00

Report Date: 10/08/2020 ORELAP#: OR100028

Purchase Order:

Received: 10/02/20 10:30

These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

Units of Measure

μg/g = Microgram per gram mg/kg = Milligram per kilogram = parts per million (ppm) % = Percentage of sample % wt = μ g/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner General Manager





Report Number: 20-010672/D02.R00

Report Date: 10/08/2020 ORELAP#: OR100028

Purchase Order:

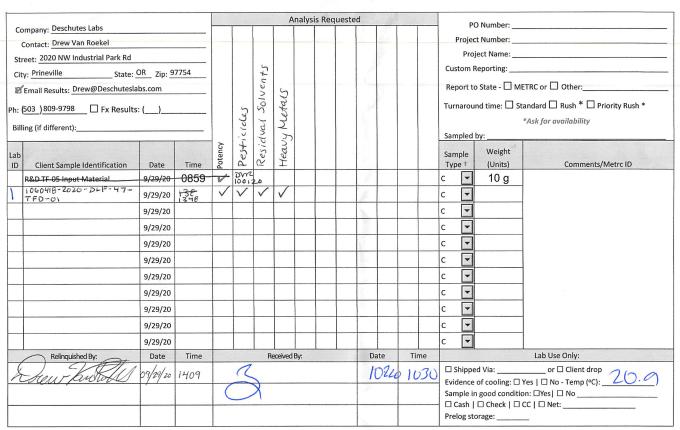
Received: 10/02/20 10:30



Hemp / Cannabis Usable / Extract **Chain of Custody Record**

Revision: 3.01 Control#: CF023 Rev 02/26/2020 Eff: 02/27/2020 ORELAP ID: OR100028





† - Sample Type Codes: Vegitation (V); Isolates (S); Extract/Concentrate (C)

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to these terms of Service associated with this COC. By signing "Relinquished by" you are agreeing to the Service associated with the COC. By signing "Relinquished by" you are agreeing to the Service associated with the COC. By signing "Relinquished by" you are agreeing to the Service associated with this COC. By signing "Relinquished by" you are agreeing to the Service associated with the COC. By signing "Relinquished by" you are agreeing to the Service associated with the COC. By signing "Relinquished by Service associated with the COC. By signing "Relinquished by Service associated by Service associated with the COC. By signing agree as a service as a se 12423 NE Whitaker Way P: (503) 254-1794 | Fax: (503) 254-1452 Page _ Portland, OR 97230 info@columbialaboratories.com www.columbialaboratories.com





Report Number: 20-010672/D02.R00

Report Date: 10/08/2020

ORELAP#: OR100028

Purchase Order:

Received: 10/02/20 10:30

Columbia LABORATORIES A Atomanus Company	Columbia Laboratories Sample Receipt Form				cument Control: Cl 0 Effective: 02/28/2	
Job Number: 20-010672	Search Name:					
Package/Cooler opened on (if different than receive	ved date/time) Date:	Time:	030	/		
Received By (Initials):						
Were custody seals on outside of the package If YES, how many and where?	e/cooler?	YES	NO	NA		
Were signature and date correct?		YES	NO	NA		
2) Were custody papers included in the package/	cooler?	YES	NO	NA		
3) Were custody papers properly filled out (ink,	sign, date)?	YES	NO	NA		
4) Did you sign custody papers in the appropriate	e place?	YES	NO	NA		
5) How was the package/cooler delivered?						
UPS FEDEX USPS	CLIENT COURIER	OTHE			_	
Tracking Number (written in or copy of ship	oping label): 17 to	HE	64	03	9202	27.4
6) Was packing material used?		YES	NO	NA		
Peanuts Bubble Wrap Foam Paper	Other:					
7) Was sufficient ice used (if appropriate)? What kind?		YES	NO	NA		
Blue Ice Cooler Packs	Dry Ice	2				
8) Were all sample containers sealed in separate	plastic bags?	YES	NO	NA		
9) Did all sample containers arrive in good cond	ition?	YES	NO	NA		
10) Were all sample container labels complete?		VES	NO	NA		
11) Did all sample container labels and tags agree	with the coc?	YES	NO	NA		
12) Were correct sample containers used for the te	ests indicated?	YES	NO	NA		
13) Were VOA vials checked for absence of air b	ubbles (note if found)?	YES	NO	NA		
14) Was a sufficient amount of sample sent in each	ch sample container?	YES	NO	NA		
15) Temperature of the samples upon receipt (See	SOP for proper temps)	20). Oc			
16) Sample location prior to login: R25 R39	R44 F44 Ambient Shelf	Canna	bis Table	e Other:	:	
Explain any discrepancies:						
Page <u>Z</u> of <u>Z</u>						

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Report Number: 20-010672/D02.R00

Report Date: 10/08/2020 ORELAP#: OR100028

Purchase Order:

Received: 10/02/20 10:30

Revision: 1.00 Control: CFL-C21 Revised: 08/12/2019 Effective: 08/15/2019

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 1566 Method Blank		Units: mg/Kg Batch ID: 2008189									
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes			
Acephate	0.048	< 0.200	I	0.953	1.000	95.3	68.1 - 126	I			
Acequinocyl	0.038	< 1.000	1	4.336	4.000	108.4	69.7 - 129	-			
Acetamiprid	0.000	< 0.100	1	0.367	0.400	91.6	68.9 - 128				
Aldicarb	0.134	< 0.200	1	0.728	0.800	91.0	67.8 - 126	 			
Abamectin	0.000	< 0.288	+	0.901	1.000	90.1	69.3 - 129	_			
Azoxystrobin	0.008	< 0.100	1	0.384	0.400	96.0	68.9 - 128	-			
Bifenazate	0.010	< 0.100	1 -	0.367	0.400	91.8	68.2 - 127				
Bifenthrin	0.000	< 0.100	1	0.367	0.400	91.8	71.4 - 133	-			
Boscalid	0.000	< 0.100	1	0.664	0.800	83.0	68.3 - 127				
Carbaryl	0.014	< 0.100	1	0.353	0.400	88.2	69.5 - 129	-			
Carbofuran	0.015	< 0.100	1	0.352	0.400	88.0	69.0 - 128	_			
Chlorantraniliprol	0.000	< 0.100	1	0.326	0.400	81.5	69.6 - 129				
Chlorfenapyr	0.000	< 1.000	1	2.013	2.000	100.6	68.1 - 126	 			
Chlorpyrifos	0.006	< 0.100	1	0.426	0.400	106.4	69.0 - 128	-			
Clofentezine	0.019	< 0.100	1	0.347	0.400	86.8	66.9 - 124				
Cyfluthrin	0.000	< 1.000	1	1.493	2.000	74.7	70.7 - 131				
Cypermethrin	0.087	< 1.000	1	1.728	2.000	86.4	71.2 - 132	-			
Daminozide	0.101	< 1.000	1	1.854	2.000	92.7	65.8 - 122	-			
Diazinon	0.004	< 0.100	1	0.374	0.400	93.5	68.3 - 127				
Dichlorvos	0.086	< 0.500	1	1.695	2.000	84.8	68.0 - 126				
Dimethoat	0.016	< 0.100	+	0.365	0.400	91.3	68.5 - 127				
Ethoprophos	0.030	< 0.100	1	0.303	0.400	93.9	67.9 - 126				
Etofenprox	0.016	< 0.100	1	0.373	0.400	96.0	69.0 - 128				
Etoxazol	0.005	< 0.100	1	0.376	0.400	93.9	68.2 - 127	-			
	0.003		1	0.376	0.400	86.8	68.6 - 127				
Fenoxycarb		< 0.100	1								
Fenpyroximat	0.026	< 0.100	1	0.731	0.800	91.4	70.2 - 130				
Fipronil	0.006	< 0.100		0.785	0.800	98.1	71.4 - 133 69.3 - 129				
Flonicamid	0.000	< 0.400	1	1.001	1.000	100.1					
Fludioxonil	0.000	< 0.100	1	0.835	0.800	104.4	69.0 - 128				
Hexythiazox	0.031	< 0.400		0.913	1.000	91.3	70.9 - 132				
Imazalil	0.011	< 0.100		0.390	0.400	97.6	71.6 - 133	<u> </u>			
Imidacloprid	0.034	< 0.200		0.719	0.800	89.9	67.7 - 126				
Kresoxim-Methyl	0.030	< 0.100		0.743	0.800	92.9	68.9 - 128				
Malathion	0.015	< 0.100		0.377	0.400	94.3	68.8 - 128				
Metalaxyl	0.021	< 0.100		0.375	0.400	93.7	68.2 - 127				
Methiocarb	0.050	< 0.100		0.388	0.400	97.0	68.7 - 128				
Methomyl	0.000	< 0.200		0.768	0.800	96.0	67.8 - 126				
MGK 264	0.009	< 0.100		0.362	0.400	90.6	69.8 - 130				
Myclobutanil	0.012	< 0.100		0.369	0.400	92.3	67.6 - 126				
Naled	0.056	< 0.200	1	0.869	1.000	86.9	68.6 - 127				
Oxamyl	0.000	< 0.400		1.928	2.000	96.4	67.7 - 126				
Paclobutrazol	0.000	< 0.200		0.701	0.800	87.7	67.5 - 125				
Parathion Methyl	0.000	< 0.200		0.845	0.800	105.6	71.9 - 133				
Permethrin	0.005	< 0.100		0.431	0.400	107.8	70.1 - 130				
Phosmet	0.000	< 0.100		0.359	0.400	89.8	69.1 - 128				
Piperonyl butoxide	0.033	< 1.000		1.807	2.000	90.3	69.8 - 130				
Prallethrin	0.148	< 0.200		0.453	0.400	113.2	70.5 - 131				
Propiconazole	0.020	< 0.200		0.759	0.800	94.9	68.7 - 128				
Propoxur	0.014	< 0.100		0.366	0.400	91.4	68.0 - 126				
Pyrethrins	0.019	< 0.500		0.383	0.413	92.6	69.9 - 130				
Pyridaben	0.000	< 0.100		0.406	0.400	101.6	74.6 - 139				
Spinosad	0.000	< 0.100		0.408	0.388	105.2	75.7 - 141				
Spiromesifen	0.029	< 0.100		0.360	0.400	89.9	69.3 - 129				
Spirotetramat	0.016	< 0.100		0.386	0.400	96.6	69.1 - 128	1			
Spiroxamine	0.015	< 0.100		0.724	0.800	90.5	68.8 - 128				
Tebuconazol	0.020	< 0.200	1	0.775	0.800	96.8	68.1 - 127				
Thiacloprid	0.000	< 0.100		0.370	0.400	92.4	68.2 - 127				
Thiamethoxam	0.000	< 0.100	1	0.357	0.400	89.3	68.0 - 126	Ì			
Trifloxystrobin	0.002	< 0.100	1	0.371	0.400	92.9	69.4 - 129				





Report Number: 20-010672/D02.R00

Report Date: 10/08/2020 ORELAP#: OR100028

Purchase Order:

Received: 10/02/20 10:30

Revision: 1.00 Control: CFL-C21 Revised: 08/12/2019 Effective: 08/15/2019

Laboratory Pesticide Quality Control Results

			AOAC 2007.1 & EN 15662 Units: mg/Kg Batch ID: 2008189								
Matrix Spike/Matrix Spike				7.000000		100000000		20-010664-0		20020	
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit		MSD % Rec	Limits	Notes	
Acephate	0.038	0.944	0.931	1.000	1.4	< 30	90.7	89.4	50 - 150		
Acequinocyl	0.000	4.101	3.606	4.000	12.8	< 30	102.5	90.2	50 - 150		
Acetamiprid	0.000	0.462	0.358	0.400	25.5	< 30	115.6	89.4	50 - 150		
Aldicarb	0.153	1.314	0.758	0.800	53.6	< 30	145.2	75.7	50 - 150	R	
Abamectin	0.000	1.440	1.517	1.000	5.2	< 30	144.0	151.7	50 - 150	Q1	
Azoxystrobin	0.011	0.484	0.512	0.400	5.6	< 30	118.1	125.1	50 - 150		
Bifenazate	0.000	0.359	0.366	0.400	2.0	< 30	89.7	91.5	50 - 150		
Bifenthrin	0.000	0.805	0.828	0.400	2.9	< 30	201.2	207.1	50 - 150	Q1	
Boscalid	0.000	0.772	0.721	0.800	6.8	< 30	96.5	90.2	50 - 150		
Carbaryl	0.013	0.418	0.384	0.400	8.5	< 30	101.3	92.9	50 - 150		
Carbofuran	0.014	0.423	0.391	0.400	7.8	< 30	102.4	94.4	50 - 150		
Chlorantraniliprol	0.000	0.356	0.339	0.400	4.9	< 30	88.9	84.7	50 - 150		
Chlorfenapyr	0.000	2.074	1.696	2.000	20.1	< 30	103.7	84.8	50 - 150		
Chlorpyrifos	0.020	0.525	0.551	0.400	4.9	< 30	126.2	132.8	50 - 150		
Clofentezine	0.000	0.417	0.427	0.400	2.3	< 30	104.3	106.7	50 - 150		
Cyfluthrin	0.000	3.135	2.973	2.000	5.3	< 30	156.8	148.6	30 - 150	Q1	
Cypermethrin	0.000	1.779	1.907	2.000	7.0	< 30	88.9	95.3	50 - 150		
Daminozide	0.059	1.958	1.845	2.000	5.9	< 30	94.9	89.3	30 - 150		
Diazinon	0.003	0.429	0.423	0.400	1.5	< 30	106.6	104.9	50 - 150		
Dichlorvos	0.084	2.064	2.055	2.000	0.5	< 30	99.0	98.6	50 - 150		
Dimethoat	0.000	0.767	0.382	0.400	66.9	< 30	191.7	95.6	50 - 150	R,Q1	
Ethoprophos	0.029	0.343	0.294	0.400	15.4	< 30	78.6	66.3	50 - 150		
Etofenprox	0.020	0.881	0.973	0.800	9.9	< 30	107.5	119.1	50 - 150		
Etoxazol	0.004	0.353	0.384	0.400	8.1	< 30	87.4	94.9	50 - 150		
Fenoxycarb	0.000	0.378	0.376	0.400	0.4	< 30	94.4	94.0	50 - 150		
Fenpyroximat	0.000	0.684	0.696	0.800	1.7	< 30	85.5	86.9	50 - 150		
Fipronil	0.009	1.011	0.992	0.800	1.8	< 30	125.2	122.9	50 - 150		
Flonicamid	0.028	0.869	0.921	1.000	5.8	< 30	84.1	89.3	50 - 150		
Fludioxonil	0.000	0.990	1.087	0.800	9.3	< 30	123.7	135.9	50 - 150		
Hexythiazox	0.000	2.105	2.200	1.000	4.4	< 30	210.5	220.0	50 - 150		
Imazalil	0.065	0.388	0.379	0.400	2.4	< 30	80.9	78.6	50 - 150		
Imidacloprid	0.032	0.734	0.756	0.800	3.0	< 30	87.7	90.5	50 - 150		
Kresoxim-Methyl	0.000	0.718	0.757	0.800	5.3	< 30	89.7	94.7	50 - 150		
Malathion	0.011	0.419	0.437	0.400	4.2	< 30	102.1	106.6	50 - 150		
Metalaxyl	0.020	0.377	0.391	0.400	3.6	< 30	89.4	92.9	50 - 150		
Methiocarb	0.051	0.445	0.428	0.400	3.9	< 30	98.4	94.1	50 - 150		
Methomyl	0.000	0.769	0.798	0.800	3.7	< 30	96.1	99.8	50 - 150		
MGK 264	0.000	0.382	0.378	0.400	0.9	< 30	95.4	94.6	50 - 150		
Myclobutanil	0.010	0.341	0.352	0.400	3.1	< 30	82.8	85.4	50 - 150		
Naled	0.000	1.178	1.095	1.000	7.3	< 30	117.8	109.5	50 - 150		
Oxamyl	0.000	2.072	2.031	2.000	2.0	< 30	103.6	101.6	50 - 150		
Paclobutrazol	0.031	0.687	0.685	0.800	0.4	< 30	82.1	81.8	50 - 150		
Parathion Methyl	0.000	0.643	0.676	0.800	5.0	< 30	80.4	84.5	30 - 150		
Permethrin	0.010	0.412	0.421	0.400	2.2	< 30	100.7	103.0	50 - 150		
Phosmet	0.000	0.380	0.402	0.400	5.6	< 30	94.9	100.4	50 - 150		
Piperonyl butoxide	0.006	2.221	2.180	2.000	1.9	< 30	110.8	108.7	50 - 150		
Prallethrin	0.000	0.725	0.724	0.400	0.2	< 30	181.3	181.0	50 - 150	Q1	
Propiconazole	0.006	0.819	0.792	0.800	3.4	< 30	101.5	98.2	50 - 150		
Propoxur	0.012	0.449	0.371	0.400	19.1	< 30	109.2	89.6	50 - 150		
Pyrethrins	0.000	0.403	0.410	0.413	1.7	< 30	97.6	99.3	50 - 150		
Pyridaben	0.000	0.311	0.308	0.400	0.8	< 30	77.7	77.1	50 - 150		
Spinosad	0.000	0.396	0.411	0.388	3.6	< 30	102.1	105.8	50 - 150		
Spiromesifen	0.013	0.417	0.409	0.400	2.0	< 30	101.0	99.0	50 - 150	ĺ	
Spirotetramat	0.015	0.337	0.352	0.400	4.5	< 30	80.3	84.2	50 - 150		
Spiroxamine	0.014	0.720	0.726	0.800	0.9	< 30	88.1	89.0	50 - 150		
lebuconazol	0.000	0.702	0.699	0.800	0.4	< 30	87.7	87.4	50 - 150		
Thiacloprid	0.000	0.398	0.370	0.400	7.4	< 30	99.6	92.6	50 - 150		
Thiamethoxam	0.000	0.344	0.360	0.400	4.6	< 30	86.0	90.0	50 - 150		
Trifloxystrobin	0.000	0.399	0.459	0.400	9.5	< 30	99.8	114.7	50 - 150	-	





20-010672/D02.R00 **Report Number:**

Report Date: 10/08/2020 ORELAP#: OR100028

Purchase Order:

Received: 10/02/20 10:30

Revision #: 0.00 Control : CFL-D06 Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

J AOAC 2015	AOAC 2015 V98-6 Batch ID: 2008206									
Laboratory C	ontrol Sample									
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes			
CBDV-A	0.205	0.2	%	102	85.0 - 115	Acceptable				
CBDV	0.213	0.2	%	107	85.0 - 115	Acceptable				
CBD-A	0.212	0.2	%	106	85.0 - 115	Acceptable				
CBG-A	0.200	0.2	%	99.9	85.0 - 115	Acceptable				
CBG	0.206	0.2	%	103	85.0 - 115	Acceptable				
CBD	0.215	0.2	%	107	85.0 - 115	Acceptable				
THCV	0.197	0.2	%	98.7	85.0 - 115	Acceptable				
THCVA	0.154	0.2	%	99.2	85.0 - 115	Acceptable				
CBN	0.208	0.2	%	104	85.0 - 115	Acceptable				
THC	0.218	0.2	%	109	85.0 - 115	Acceptable				
D8THC	0.188	0.2	%	94.2	85.0 - 115	Acceptable				
CBL	0.193	0.2	%	96.4	85.0 - 115	Acceptable				
CBC	0.204	0.2	%	102	85.0 - 115	Acceptable				
THCA	0.187	0.2	%	93.7	85.0 - 115	Acceptable				
CBCA	0.191	0.2	%	95.3	85.0 - 115	Acceptable				

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	<loq< td=""><td>0.1</td><td>%</td><td>< 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBDV	<loq< td=""><td>0.1</td><td>%</td><td>< 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBD-A	<loq< td=""><td>0.1</td><td>%</td><td>< 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBG-A	<loq< td=""><td>0.1</td><td>%</td><td>< 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBG	<loq< td=""><td>0.1</td><td>%</td><td>< 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBD	<loq< td=""><td>0.1</td><td>%</td><td>< 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
THCV	<loq< td=""><td>0.1</td><td>%</td><td>< 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
THCVA	<loq< td=""><td>0.1</td><td>%</td><td>< 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBN	<loq< td=""><td>0.1</td><td>%</td><td>< 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
THC	<loq< td=""><td>0.1</td><td>%</td><td>< 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
D8THC	<loq< td=""><td>0.1</td><td>%</td><td>< 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBL	<loq< td=""><td>0.1</td><td>%</td><td>< 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBC	<loq< td=""><td>0.1</td><td>%</td><td>< 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
THCA	<loq< td=""><td>0.1</td><td>%</td><td>< 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	
CBCA	<loq< td=""><td>0.1</td><td>%</td><td>< 0.1</td><td>Acceptable</td><td></td></loq<>	0.1	%	< 0.1	Acceptable	

Abbreviations

ND - None Detected at or above MRL RPD - Relative Percent Difference LOQ - Limit of Quantitation

Units of Measure:

% - Percent





Report Number: 20-010672/D02.R00

Report Date: 10/08/2020 ORELAP#: OR100028

Purchase Order:

Received: 10/02/20 10:30

Revision #: 0.00 Control : CFL-D06 Revision Date: 05/31/2019 Effective Date: 05/31/2019

Laboratory Quality Control Results

J AOAC 2015	V98-6				Bato	ch ID: 2008206					
Sample Duplic	cate			Sample ID: 20-010658-0001							
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes			
CBDV-A	<l0q< td=""><td><l0q< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></l0q<></td></l0q<>	<l0q< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></l0q<>	0.1	%	NA	< 20	Acceptable				
CBDV	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				
CBD-A	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				
CBG-A	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				
CBG	0.728	0.734	0.1	%	0.852	< 20	Acceptable				
CBD	0.118	0.118	0.1	%	0.649	< 20	Acceptable				
THCV	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				
THCVA	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				
CBN	0.138	0.138	0.1	%	0.162	< 20	Acceptable				
THC	14.2	14.3	0.1	%	0.314	< 20	Acceptable				
D8THC	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				
CBL	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				
CBC	0.378	0.382	0.1	%	1.22	< 20	Acceptable				
THCA	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				
CBCA	<loq< td=""><td><loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.1</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.1	%	NA	< 20	Acceptable				

Abbreviations

ND - None Detected at or above MRL RPD - Relative Percent Difference LOQ - Limit of Quantitation

NA - Calculation Not Applicable given non-numerical results

Units of Measure:

% - Percent





20-010672/D02.R00 **Report Number:**

Report Date: 10/08/2020 ORELAP#: OR100028

Purchase Order:

Received: 10/02/20 10:30

Laboratory Quality Control Results

EPA 5021		oorate	ny Qu	unty com	TOI RESUIT		ch ID:	200824	10		
Method Blank					Laborato	ry Control S					
Analyte	Result		LOQ	Notes	Result	Spike	Units	% Rec	L	imits	Notes
Propane	ND	<	200		1140	1,190	µg/g	95.8	70	- 130	
Isobutane	ND	<	200		1400	1,520	µg/g	92.1	70	- 130	1
Butane	ND	<	200		1430	1,520	µg/g	94.1	70	- 130	1
2,2-Dimethylpropane	ND	<	200		1830	1,910	µg/g	95.8	70	- 130	1
Methanol	ND	<	200		3010	3,230	µg/g	93.2	70	- 130	1
Ethylene Oxide	ND	<	30		117	117	µg/g	100.0	70	- 130	
2-Methylbutane	ND	<	200		3030	3,200	µg/g	94.7	70	- 130	
Pentane	ND	<	200		3030	3,220	µg/g	94.1	70	- 130	
Ethanol	ND	<	200		2860	3,200	µg/g	89.4	70	- 130	
Ethyl Ether	ND	<	200		2940	3,220	µg/g	91.3	70	- 130	
2,2-Dimethylbutane	ND	<	30		289	334	µg/g	86.5	70	- 130	
Acetone	ND	<	200		2980	3,210	µg/g	92.8	70	- 130	
2-Propanol	ND	<	200		2820	3,240	µg/g	87.0	70	- 130	
Acetonitrile	ND	<	100		895	975	µg/g	91.8	70	- 130	
2,3-Dimethylbutane	ND	<	30		313	345	µg/g	90.7	70	- 130	
Dichloromethane	ND	<	200		850	976	µg/g	87.1	70	- 130	
2-Methylpentane	ND	٧	30		362	330	µg/g	109.7	70	- 130	
3-Methylpentane	ND	٧	30		292	331	µg/g	88.2	70	- 130	
Hexane	ND	<	30		292	340	µg/g	85.9	70	- 130	
Ethyl acetate	ND	<	200		2970	3,210	µg/g	92.5	70	- 130	
2-Butanol	ND	<	200		2840	3,210	µg/g	88.5	70	- 130	
Tetrahydrofuran	ND	<	100		851	982	µg/g	86.7	70	- 130	
Cyclohexane	ND	<	200		2860	3,210	µg/g	89.1	70	- 130	
Benzene	ND	<	1		26.4	29.8	µg/g	88.6	70	- 130	
Isopropyl Acetate	ND	<	200		2880	3,220	µg/g	89.4	70	- 130	
Heptane	ND	<	200		2970	3,200	µg/g	92.8	70	- 130	
1,4-Dioxane	ND	<	100		831	970	µg/g	85.7	70	- 130	
2-Ethoxyethanol	ND	<	30		1450	1,600	µg/g	90.6	70	- 130	
Ethylene Glycol	ND	<	200		1010	974	µg/g	103.7	70	- 130	
Toluene	ND	<	200		840	982	µg/g	85.5	70	- 130	
Ethylbenzene	ND	<	200		1690	1,970	µg/g	85.8	70	- 130	
m,p-Xylene	ND	<	200		1720		µg/g		70	- 130	
o-Xylene	ND	<	200		1700	1,910	µg/g	89.0	70	- 130	
Cumene	ND	<	30		282	320	µg/g	88.1	70	- 130	1





Sample ID: 20-010672-0001

Report Number: 20-010672/D02.R00

Report Date: 10/08/2020 ORELAP#: OR100028

Purchase Order:

Received: 10/02/20 10:30

QC - Sample Duplicate

QC- Sample Duplicat		Sample ID. 20-010072-0001								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes		
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable			
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable			
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable			
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable			
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable			
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable			
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable			
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable			
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable			
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable			
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable			
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable			
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable			
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable			
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable			
Dichloromethane	ND	ND	200	µg/g	0.0	< 20	Acceptable			
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable			
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable			
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable			
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable			
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable			
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable			
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable			
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable			
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable			
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable			
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable			
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable			
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable			
Toluene	ND	ND	200	µg/g	0.0	< 20	Acceptable			
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable			
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable			
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable			
Cumene	ND	ND	30	па/а	0.0	< 20	Accentable			

Abbreviations

ND - None Detected at or above MRL

RPD - Relative Percent Difference LOQ - Limit of Quantitation

* Screening only

Q1 Quality Control result biased high. Only non detect samples reported.

μg/g- Microgram per gram or ppm mg/Kg - Milligrams per Kilogram Aw- Water Activity unit





20-010672/D02.R00 **Report Number:**

Report Date: 10/08/2020 ORELAP#: OR100028

Purchase Order:

10/02/20 10:30 Received:

Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
В	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.