DANU

CERTIFICATE OF ANALYSIS

PRODUCT NAME:	Danu CBD 1 oz Salve
PRODUCT STRENGTH:	500mg
LOT NUMBER:	0352020-1
BEST BY DATE:	08/10/2021
HEMP EXTRACT LOT NUMBER*:	112619

Click on the links to view third-party reports

Physical Atttributes

Test	Method	Specification	Results
Color	SOP-100	Light off white to yellow opaque, hint of green	PASS
Odor	SOP-100	Lavender, eucalyptus, hint of beeswax and coconut	PASS
Appearance	SOP-100	Firm, semi-waxy salve in container with screw lid	PASS
Primary Package Eval.	SOP-132	Container clean and free of filth. Container caps tight and pressure seal intact	PASS
Secondary Package Eval.	SOP-132	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

Review of Third-Party Analysis

Panel	Method	Specification	Results	Pass/Fail
Potency - Total CBD	SOP-111	475-625 mg CBD LOQ**: 10 PPM† (0.001%)	504.3mg	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	ND	PASS
Compliant Pesticide Panel	SOP-111	WIP-100008 : Product specification for Topicals Oregon Action limits apply	ND	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	Below LOD	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	Below LOD	PASS
Microbial - Yeast and Mold	SOP-111	Complies with USP 61/62	Below LOD	PASS
CA Compliant Heavy Metal Panel	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	Below LOQ	PASS

* Level of Quantitation, † Parts Per Million

03/20/2020

Quality Certified by: Darcie Moran

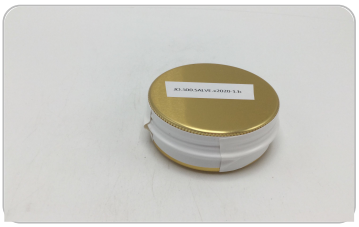
Darcie Moran — Date

Manager of Quality Assurance

CERTIFICATE OF ANALYSIS
ISO/IEC 17025:2017 ACCREDITATION #103104

Order #: 48717
Order Name:
JO.500.SALVE.x2020-1.b
Batch#: 5102500-0352020-1
Received: 02/12/2020
Completed: 02/19/2020

Sample



N/D	1.779%
D9-THC	Total CBD

514.6 mg	504.3 mg
Cannabinoids per unit	CBD per unit

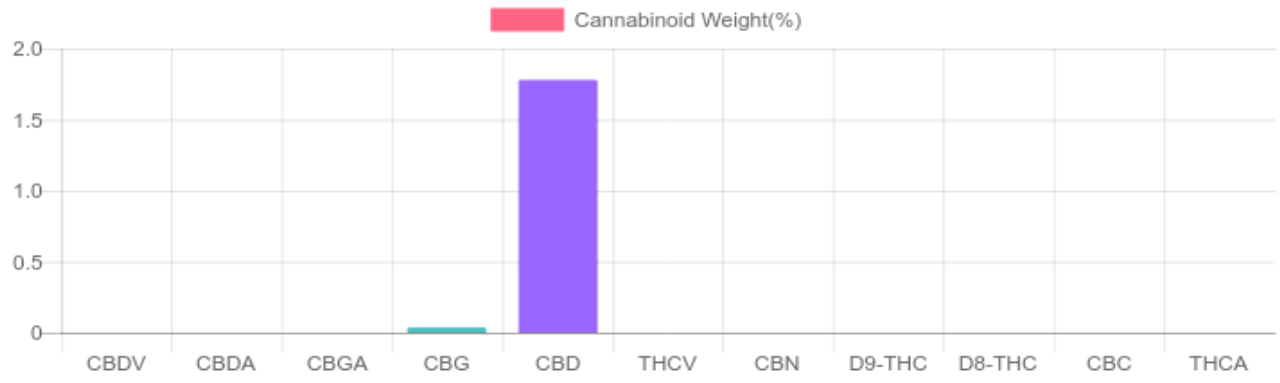
1 unit = 28.35 grams per unit x Cannabinoid concentration

Cannabinoids Test

SHIMADZU INTEGRATED UPLC-PDA
GSL SOP 400

UPLOADED: 02/13/2020 08:13:38

Cannabinoids	LOQ	weight(%)	mg/g	mg/unit
D9-THC	10 PPM	N/D	N/D	N/D
THCA	10 PPM	N/D	N/D	N/D
CBD	10 PPM	**1.779%**	**17.790**	**504.3**
CBDA	20 PPM	N/D	N/D	N/D
CBDV	20 PPM	N/D	N/D	N/D
CBC	10 PPM	N/D	N/D	N/D
CBN	10 PPM	N/D	N/D	N/D
CBG	10 PPM	**0.036%**	**0.363**	**10.3**
CBGA	20 PPM	N/D	N/D	N/D
D8-THC	10 PPM	N/D	N/D	N/D
THCV	10 PPM	N/D	N/D	N/D
TOTAL D9-THC		**N/D**	**N/D**	**N/D**
TOTAL CBD*		**1.779%**	**17.790**	**504.3**
TOTAL CANNABINOIDS		**1.815%**	**18.153**	**514.6**



Reporting Limit 10 ppm
*Total CBD = CBD + CBDA x 0.877
N/D - Not Detected, B/LOQ - Below Limit of Quantification

Dr. Andrew Hall, Ph.D.,Chief Scientific Officer

Ben Witten, MS, MT., Lab Director

Green Scientific Labs
info@greenscientificlabs.com
1-833 TEST CBD

Green Scientific Labs uses its best efforts to deliver high quality results and to verify that the data contained therein are based on sound scientific judgment and levels listed are guidelines only and all data was reported based on standard laboratory procedures and deviations. However Green Scientific Labs makes no warranties or claims to that effect and further shall not be liable for any damage or misrepresentation that may result from the use or misuse of the data contained herein in any way. Further, Green Scientific Labs makes no claims regarding representations of the analyzed sample to the larger batch from which it was taken. Data and information in this report are intended solely for the individual(s) for whom samples were submitted and as part of our strict confidentiality policy, Green Scientific Labs can only discuss results with the original client of record.

Methods	SOP ID	equipment
potency	MSP-7.5.1.5	LC-2030
terpenes	MSP-7.5.1.7	QP2020/HS20
solvents	MSP-7.5.1.6	QP2020/HS20
pesticides	MSP-7.5.1.8	LC-8060
mycotoxins	MSP-7.5.1.8	LC-8060
microbial	MSP-7.5.1.9	Hardy Diag
metals	MSP-7.5.1.10	ICPMS2030

Comments

Mycotoxins	result	limit	LOD	LOQ	error	pass/fail
Ochratoxin A	ND	0 ppb		0.2 I 0.7 I ±0.7 ppb		P
Aflatoxin B1B2G1G2	ND	0 ppb		0.3 I 0.8 I ±0.8 ppb		P

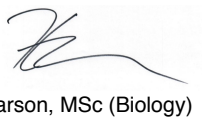
Microbial	result	limit	LOD	LOQ	error	pass/fail
E coli	ND	0CFU		0.0 I 0.1 I ±0.1CFU		P
Salmonella sp.	ND	0CFU		0.0 I 0.1 I ±0.1CFU		P
molds	ND	0CFU		1.4 I 4.2 I ±4.2CFU		P

Metals	result	limit	LOD	LOQ	error	pass/fail
Arsenic	ND	0.0 ppm	0.085 I 0.256 I ±0.256 ppm			P
Cadmium	ND	0.0 ppm	0.123 I 0.368 I ±0.368 ppm			P
Lead	ND	0.0 ppm	0.057 I 0.172 I ±0.172 ppm			P
Mercury	ND	0.0 ppm	0.100 I 0.301 I ±0.301 ppm			P

Residual Solvents	result	limit	LOD	LOQ	error	pass/fail
NOT REQUIRED						

• All testing was completed onsite at 6073 US93N, Olney MT •• Potency (cannabinoid concentration) is calcuated from the equation: [cannabioid] = $[\text{cannabinoid}]_{HPLC}$ x $\text{volume}_{dilution}/m_{dry}$. Terpene concentration is calcuated from the equation: [terpene] = $(\text{terpene mass})_{GCMS}$ / m_{dry}. ••• Decarboxyted cannabinoid concentration is calculated from the equation XXX_{total} = 0.877 x XXXa + XXX •••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; LOD is the limit of detection ($3.3s_i$), LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula $s_g^2 = \sum(\partial f/\partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t_{CL90} x s_g. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, P = pass, F = fail, NL = no limit, NA = not applicable.

Certified by:



Kyle Larson, MSc (Biology)
Deputy Director

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6073 US93N Suite 5
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406-881-2019

https://portal.a2la.org/scopepdf/4961-01.pdf

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Pesticides	result	limit	LOD	LOQ	error	pass/fail
Abamectin	ND	0.0 ppm	0.004 I 0.013 I ±0.013 ppm			P
Acephate	ND	0.0 ppm	0.004 I 0.013 I ±0.013 ppm			P
Acequinocyl	ND	0.0 ppm	0.004 I 0.011 I ±0.011 ppm			P
Acetamiprid	ND	0.0 ppm	0.001 I 0.003 I ±0.003 ppm			P
Aldicarb	ND	0.0 ppm	0.001 I 0.004 I ±0.004 ppm			P
Azoxystrobin	ND	0.0 ppm	0.001 I 0.004 I ±0.004 ppm			P
Bifenazate	ND	0.0 ppm	0.001 I 0.003 I ±0.003 ppm			P
Bifenthrin	ND	0.0 ppm	0.001 I 0.002 I ±0.002 ppm			P
Boscalid	ND	0.0 ppm	0.012 I 0.037 I ±0.037 ppm			P
Captan	NT	0.0 ppm				NA
Carbaryl	ND	0.0 ppm	0.005 I 0.015 I ±0.015 ppm			P
Carbofuran	ND	0.0 ppm	0.001 I 0.003 I ±0.003 ppm			P
Chloantraniliprole	ND	0.0 ppm	0.012 I 0.035 I ±0.035 ppm			P
Chlordane	NT	0.0 ppm				NA
Chlorfenapyr	ND	0.0 ppm	0.003 I 0.009 I ±0.009 ppm			P
Chlormequat	ND	0.0 ppm	0.005 I 0.014 I ±0.014 ppm			P
Chlorpyrifos	ND	0.0 ppm	0.024 I 0.073 I ±0.073 ppm			P
Clofentezine	ND	0.0 ppm	0.004 I 0.013 I ±0.013 ppm			P
Coumaphos	ND	0.0 ppm	0.003 I 0.009 I ±0.009 ppm			P
Cyfluthrin	ND	0.0 ppm	0.004 I 0.013 I ±0.013 ppm			P
Cypermethrin	ND	0.0 ppm	0.003 I 0.009 I ±0.009 ppm			P
Daminozide	ND	0.0 ppm	0.017 I 0.050 I ±0.050 ppm			P
Dichlorvos	ND	0.0 ppm	0.009 I 0.026 I ±0.026 ppm			P
Diazinon	ND	0.0 ppm	0.001 I 0.002 I ±0.002 ppm			P
Dimethoate	ND	0.0 ppm	0.001 I 0.004 I ±0.004 ppm			P
Dimethomorph	NT	0.0 ppm				NA
Ethoprop	ND	0.0 ppm	0.001 I 0.004 I ±0.004 ppm			P
Ethoprop	ND	0.0 ppm	0.001 I 0.004 I ±0.004 ppm			P
Etoxazole	ND	0.0 ppm	0.002 I 0.007 I ±0.007 ppm			P
Fenhexamid	NT	0.0 ppm				NA
Fenoxycarb	ND	0.0 ppm	0.002 I 0.006 I ±0.006 ppm			P
Fenpyroximate	ND	0.0 ppm	0.001 I 0.002 I ±0.002 ppm			P
Fipronil	ND	0.0 ppm	0.004 I 0.013 I ±0.013 ppm			P
Flonicamid	ND	0.0 ppm	0.059 I 0.177 I ±0.177 ppm			P
Fludioxonil	ND	0.0 ppm	0.004 I 0.012 I ±0.012 ppm			P
Hexythiazox	ND	0.0 ppm	0.006 I 0.017 I ±0.017 ppm			P
Imazalil	ND	0.0 ppm	0.004 I 0.012 I ±0.012 ppm			P
Imidacloprid	ND	0.0 ppm	0.001 I 0.002 I ±0.002 ppm			P
Kresoxym Methyl	NT	0.0 ppm				NA
Malathion	ND	0.0 ppm	0.003 I 0.009 I ±0.009 ppm			P
Metalaxyl	ND	0.0 ppm	0.005 I 0.014 I ±0.014 ppm			P
Methiocarb	ND	0.0 ppm	0.002 I 0.007 I ±0.007 ppm			P
Methomyl	ND	0.0 ppm	0.004 I 0.011 I ±0.011 ppm			P
Methyl parathion	ND	0.0 ppm	?.00? I ?.00? I ±?.00? ppm			P
Mevinphos	ND	0.0 ppm	0.003 I 0.009 I ±0.009 ppm			P
Myclobutanil	ND	0.0 ppm	0.001 I 0.002 I ±0.002 ppm			P
Naled	ND	0.0 ppm	0.003 I 0.009 I ±0.009 ppm			P
Oxamyl	ND	0.0 ppm	0.001 I 0.004 I ±0.004 ppm			P
Paclobutrazol	ND	0.0 ppm	0.002 I 0.005 I ±0.005 ppm			P
PCNB	NT	0.0 ppm				NA
Permethrin	ND	0.0 ppm	0.006 I 0.018 I ±0.018 ppm			P
Phosmet	ND	0.0 ppm	0.002 I 0.005 I ±0.005 ppm			P
Piperonylbutoxide	ND	0.0 ppm	0.006 I 0.018 I ±0.018 ppm			P
Prallethrin	ND	0.0 ppm	0.002 I 0.007 I ±0.007 ppm			P
Propiconazole	ND	0.0 ppm	0.002 I 0.007 I ±0.007 ppm			P
Propoxur	0.01 ppm	0.0 ppm	0.003 I 0.010 I ±0.010 ppm			F
Pyrethrin	ND	0.0 ppm	0.002 I 0.005 I ±0.005 ppm			P
Pyridaben	ND	0.0 ppm	0.001 I 0.002 I ±0.002 ppm			P
Spinetoram	ND	0.0 ppm	0.002 I 0.006 I ±0.006 ppm			P
Spinosad	ND	0.0 ppm	0.004 I 0.012 I ±0.012 ppm			P
Spiromesifen	ND	0.0 ppm	0.002 I 0.005 I ±0.005 ppm			P
Spiromesifen	ND	0.0 ppm	0.002 I 0.005 I ±0.005 ppm			P
Spiromesifen	ND	0.0 ppm	0.002 I 0.005 I ±0.005 ppm			P
Spirotetramat	ND	0.0 ppm	0.001 I 0.004 I ±0.004 ppm			P
Spiroxamine	ND	0.0 ppm	<0.001 I 0.001 I ±0.001 ppm			P
Tebuconazole	ND	0.0 ppm	0.003 I 0.009 I ±0.009 ppm			P
Thiacloprid	ND	0.0 ppm	0.001 I 0.002 I ±0.002 ppm			P
Thiamethoxam	ND	0.0 ppm	0.002 I 0.005 I ±0.005 ppm			P
Trifloxystrobin	ND	0.0 ppm	0.001 I 0.004 I ±0.004 ppm			P

B4G.112619

Certificate of Analysis

total cannabinoids **84.7%**

CBD decarb total 80.7%

Δ9-THC ND

This Product Has Been Tested and Complies with 7USC1639o(1) Definition of Hemp

ISO/IEC 17025:2017 ACCREDITED Certificate #4961.01

Stillwater Laboratories

https://portal.a2la.org/scopepdf/4961-01.pdf

Sample Handling

test ID — sample date 2/24/20 4:49 PM
order **6654** — labID **0BR66** — weight
source

Methods

	method	equipment
weights	MSP-7.3.1.3	AUX120.1
potency	MSP-7.5.1.5	LC-2030
terpenes	MSP-7.5.1.7	QP2020/HS20
pesticides	MSP-7.5.1.8	LC-8060
mycotoxins	MSP-7.5.1.8	LC-8060
microbial	MSP-7.5.1.9	Hardy Diag
solvents	MSP-7.5.1.6	QP2020/HS20
metals	MSP-7.5.1.10	ICPMS2030



concentrate



Potency

	%	estimated error
tetrahydrocannabolic acid (THCa)	ND	± 0.02 %
Δ9-tetrahydrocannabinol (Δ9 THC)	ND	± 0.02 %
Δ8-tetrahydrocannabinol (Δ8 THC)	ND	± 0.02 %
tetrahydrocannabivarin (THCv)	ND	± 0.02 %
cannabidiolic acid (CBDa)	ND	± 0.02 %
cannabidiol (CBD)	80.7%	± 0.73 %
cannabidivarin (CBDv)	ND	± 0.02 %
cannabigerolic acid (CBGa)	ND	± 0.02 %
cannabigerol (CBG)	4.02%	± 0.16 %
cannabinol (CBN)	ND	± 0.02 %
cannabichromene (CBC)	ND	± 0.02 %

Terpenes

	%	estimated error		%	estimated error		%	estimated error
ß-myrcene	0.001%	± 0.0017 %	camphene	0.002%	± 0.0017 %	guaiol	0.000%	± 0.0017 %
ß-caryophyllene	0.001%	± 0.0017 %	Δ3-carene	0.003%	± 0.0018 %	ß-bisabolol	0.002%	± 0.0017 %
alpha-pinene	0.005%	± 0.0018 %	a-terpenine	0.000%	± 0.0016 %	eucalyptol	0.005%	± 0.0018 %
ß-pinene	0.008%	± 0.0019 %	para-cymene	0.009%	± 0.0019 %			
D-limonene	0.009%	± 0.0019 %	g-terpenine	0.010%	± 0.0019 %			
linalool	0.008%	± 0.0019 %	(-)-isopulegol	0.000%	± 0.0016 %			
ocimene	0.002%	± 0.0034 %	geraniol	0.002%	± 0.0017 %			
terpinolene	0.003%	± 0.0018 %	cis-nerolidol	0.000%	± 0.0016 %			
alpha-humulene	0.007%	± 0.0019 %	trans-nerolidol	0.004%	± 0.0018 %			

total terpenes **0.08%**

Solvents

	MT limit	0BR66	LOQ
propane	5,000	0 ppm	<10ppm
butanes	5,000	0 ppm	<10ppm
pentanes	5,000	0 ppm	<10ppm
hexanes	290	0 ppm	<10ppm
cyclohexane	3,880	0 ppm	<10ppm
heptanes	5,000	0 ppm	<10ppm
methanol	3,000	0 ppm	<10ppm
isopropanol	5,000	0 ppm	<10ppm
acetone	5,000	0 ppm	<10ppm
ethyl acetate	5,000	0 ppm	<10ppm
benzene	2	0 ppm	<0.2ppm
toluene	890	0 ppm	<10ppm
xylenes	2,170	0 ppm	<10ppm
chloroform	2	0 ppm	<0.2ppm
dichloromethane	600	0 ppm	<10ppm

Toxic Metals

	MT limit	0BR66	LOQ
arsenic	2 ppm	0.0 ppm	<10ppb
cadmium	0.8 ppm	0.0 ppm	<10ppb
lead	1.2 ppm	0.0 ppm	<10ppb
mercury	0.4 ppm	0.0 ppm	<10ppb

Comments

Pesticides (MT)

	MT limit	0BR66	LOQ
abamectin	2.50 ppm	0.00 ppm	<10ppb
acequinocyl	10.00 ppm	0.00 ppm	<10ppb
bifenazate	1.00 ppm	0.00 ppm	<10ppb
bifenthrin	1.00 ppm	0.00 ppm	<10ppb
chlormequat cl.	5.00 ppm	0.00 ppm	<10ppb
cyfluthrin	5.00 ppm	0.00 ppm	<80ppb
diaminozide	5.00 ppm	0.00 ppm	<10ppb
etoxazole	1.00 ppm	0.00 ppm	<10ppb
fenoxycarb	1.00 ppm	0.00 ppm	<10ppb
imazalil	1.00 ppm	0.00 ppm	<10ppb
imidacloprid	2.00 ppm	0.00 ppm	<10ppb
myclobutanil	0.60 ppm	0.00 ppm	<10ppb
paclobutrazol	2.00 ppm	0.00 ppm	<10ppb
pyrethrins	5.00 ppm	0.00 ppm	<10ppb
spinosad	1.00 ppm	0.00 ppm	<10ppb
spiromesifen	1.00 ppm	0.00 ppm	<10ppb
spirotetramat	1.00 ppm	0.00 ppm	<10ppb
trifloxystrobin	1.00 ppm	0.00 ppm	<10ppb

Microbial

	MT limit	0BR66	LOQ
E. coli	10 CFU	0 CFU	<10 CFU/g
Salmonella sp.	10 CFU	0 CFU	<10 CFU/g
molds	10000 CFU	0 CFU	<10k CFU/g
Aflatoxin B1,B2,G1,G2	20 ppb	0 ppb	<20 ppb
Ochratoxin A	20 ppb	0 ppb	<20 ppb

Pesticides (other)

	0BR66	LOQ
acephate	0.00 ppm	<10ppb
acetamiprid	0.00 ppm	<10ppb
aldicarb	0.00 ppm	<10ppb
azoxystrobin	0.00 ppm	<10ppb
boscalid	0.00 ppm	<10ppb
carbaryl	0.00 ppm	<10ppb
carbofuran	0.00 ppm	<10ppb
chloantraniliprole	0.00 ppm	<10ppb
chlorpyrifos	0.00 ppm	<10ppb
clofentezine	0.00 ppm	<10ppb
cypermethrin	0.00 ppm	<10ppb
diazinon	0.00 ppm	<10ppb
dichlorvos	0.00 ppm	<10ppb
dimethoate	0.00 ppm	<10ppb
etofenprox	0.00 ppm	<10ppb
fenpyroximate	0.00 ppm	<10ppb
fipronil	0.00 ppm	<10ppb
flonicamid	0.00 ppm	<10ppb
fludioxonil	0.00 ppm	<10ppb
hexythiazox	0.00 ppm	<10ppb
kresoxym-methyl	0.00 ppm	<10ppb
malathion	0.00 ppm	<10ppb
metalaxyl	0.00 ppm	<10ppb
methiocarb	0.00 ppm	<10ppb
methomyl	0.00 ppm	<10ppb
oxamyl	0.00 ppm	<10ppb
permethrins	0.00 ppm	<10ppb
phosmet	0.00 ppm	<10ppb
piperonyl butoxide	0.00 ppm	<10ppb
prallethrin	0.00 ppm	<10ppb
propiconazole	0.00 ppm	<10ppb
pyridaben	0.00 ppm	<10ppb
spiroxamine	0.00 ppm	<10ppb
tebuconazole	0.00 ppm	<10ppb
thiacloprid	0.00 ppm	<10ppb
thiamethoxam	0.00 ppm	<10ppb

• All testing was completed onsite at 6073 US93N, Olney MT •• Potency (cannabinoid concentration) is calcuated from the equation: [cannabioid] = $[\text{cannabinoid}]_{HPLC} \times \text{volume}_{dilution}/m_{dry}$. Terpene concentration is calcuated from the equation: [terpene] = $(\text{terpene mass})_{GCMS} / m_{dry}$. ••• Decarboxyted cannabinoid concentration is calculated from the equation $XXX_{total} = 0.877 \times XXXa + XXX$ •••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; this is combined with error from weighing and dilution using the propagation of error formula $s_g^2 = \sum(\partial f/\partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) $\pm t_{CL90} \times s_g$. Sampling error is not

Certified by:

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