PIXIS Labs
A Tentamus Company

12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 20-000003/D02.R00
Report Date: 01/08/2020
ORELAP#: OR100028
Purchase Order:
Received: 12/31/19 10:55

Customer: Trace Minerals Research
Product identity: CBD 1200mg
Client/Metrc ID: Lot# 9447A
Laboratory ID: 20-000003-0001 **Sample Date:** 12/27/19 16:00

Summary

Potency:

Analyte per 1g	Result	Limits	Units	Status
CBC per 1g†	3.01		mg/1g	
CBD per 1g	48.2		mg/1g	
CBDV per 1g†	0.447		mg/1g	
CBG per 1g†	1.47		mg/1g	
CBL per 1g†	0.192		mg/1g	
CBN per 1g	0.0467		mg/1g	
Δ9-THC per 1g	1.81		mg/1g	
THCV per 1g†	0.0898		mg/1g	

Analyte per 30g	Result	Limits	Units	Status
CBC per 30g†	90.3		mg/30g	
CBD per 30g	1450		mg/30g	
CBDV per 30g†	13.4		mg/30g	
CBG per 30g†	44.1		mg/30g	
CBL per 30g†	5.76		mg/30g	
CBN per 30g	1.40		mg/30g	
Δ9-THC per 30g	54.3		mg/30g	
THCV per 30g†	2.69		mg/30g	

CBD-Total per 1g	48.2 mg/1g
THC-Total per 1g	1.81 mg/1g
CBD-Total per 30g	1450 mg/30g
THC-Total per 30g	54.3 mg/30g

(Reported in milligrams per serving)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
ß-Caryophyllene†	0.0292	53.48%	farnesene†	0.0254	46.52%
Total Terpenes†	**0.0546**	**100.00%**			

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.

Testing in accordance with: OAR 333-007-0430

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Received: 12/31/19 10:55

Customer: Trace Minerals Research

Product identity: CBD 1200mg
Client/Metrc ID: Lot# 9447A
Sample Date: 12/27/19 16:00
Laboratory ID: 20-000003-0001
Relinquished by: Received By Mail
Temp: 18.7 °C
Serving Size #1: 1 g
Serving Size #2: 30 g

Sample Results

Potency per 1g — Batch: 2000156

Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 1g†	3.01		mg/1g	0.0333	01/08/20	J AOAC 2015 V98-6	
CBC-A per 1g†	< LOQ		mg/1g	0.0333	01/08/20	J AOAC 2015 V98-6	
CBC-Total per 1g†	3.01		mg/1g	0.0626	01/08/20	J AOAC 2015 V98-6	
CBD per 1g	48.2		mg/1g	0.0333	01/08/20	J AOAC 2015 V98-6	
CBD-A per 1g	< LOQ		mg/1g	0.0333	01/08/20	J AOAC 2015 V98-6	
CBD-Total per 1g	48.2		mg/1g	0.0626	01/08/20	J AOAC 2015 V98-6	
CBDV per 1g†	0.447		mg/1g	0.0333	01/08/20	J AOAC 2015 V98-6	
CBDV-A per 1g†	< LOQ		mg/1g	0.0333	01/08/20	J AOAC 2015 V98-6	
CBDV-Total per 1g†	0.447		mg/1g	0.0622	01/08/20	J AOAC 2015 V98-6	
CBG per 1g†	1.47		mg/1g	0.0333	01/08/20	J AOAC 2015 V98-6	
CBG-A per 1g†	< LOQ		mg/1g	0.0333	01/08/20	J AOAC 2015 V98-6	
CBG-Total per 1g†	1.47		mg/1g	0.0626	01/08/20	J AOAC 2015 V98-6	
CBL per 1g†	0.192		mg/1g	0.0333	01/08/20	J AOAC 2015 V98-6	
CBN per 1g	0.0467		mg/1g	0.0333	01/08/20	J AOAC 2015 V98-6	
Δ8-THC per 1g†	< LOQ		mg/1g	0.0333	01/08/20	J AOAC 2015 V98-6	
Δ9-THC per 1g	1.81		mg/1g	0.0333	01/08/20	J AOAC 2015 V98-6	
THC-A per 1g	< LOQ		mg/1g	0.0333	01/08/20	J AOAC 2015 V98-6	
THC-Total per 1g	1.81		mg/1g	0.0626	01/08/20	J AOAC 2015 V98-6	
THCV per 1g†	0.0898		mg/1g	0.0333	01/08/20	J AOAC 2015 V98-6	
THCV-A per 1g†	< LOQ		mg/1g	0.0333	01/08/20	J AOAC 2015 V98-6	
THCV-Total per 1g†	0.0898		mg/1g	0.0622	01/08/20	J AOAC 2015 V98-6	

Potency per 30g — Batch: 2000156

Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 30g†	90.3		mg/30g	1.000	01/08/20	J AOAC 2015 V98-6	
CBC-A per 30g†	< LOQ		mg/30g	1.000	01/08/20	J AOAC 2015 V98-6	
CBC-Total per 30g†	90.3		mg/30g	1.88	01/08/20	J AOAC 2015 V98-6	
CBD per 30g	1450		mg/30g	1.000	01/08/20	J AOAC 2015 V98-6	
CBD-A per 30g	< LOQ		mg/30g	1.000	01/08/20	J AOAC 2015 V98-6	

Testing in accordance with: OAR 333-007-0430

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Potency per 30g — Batch: 2000156

Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBD-Total per 30g	1450		mg/30g	1.88	01/08/20	J AOAC 2015 V98-6	
CBDV per 30g†	13.4		mg/30g	1.000	01/08/20	J AOAC 2015 V98-6	
CBDV-A per 30g†	< LOQ		mg/30g	1.000	01/08/20	J AOAC 2015 V98-6	
CBDV-Total per 30g†	13.4		mg/30g	1.87	01/08/20	J AOAC 2015 V98-6	
CBG per 30g†	44.1		mg/30g	1.000	01/08/20	J AOAC 2015 V98-6	
CBG-A per 30g†	< LOQ		mg/30g	1.000	01/08/20	J AOAC 2015 V98-6	
CBG-Total per 30g†	44.1		mg/30g	1.88	01/08/20	J AOAC 2015 V98-6	
CBL per 30g†	5.76		mg/30g	1.000	01/08/20	J AOAC 2015 V98-6	
CBN per 30g	1.40		mg/30g	1.000	01/08/20	J AOAC 2015 V98-6	
Δ8-THC per 30g†	< LOQ		mg/30g	1.000	01/08/20	J AOAC 2015 V98-6	
Δ9-THC per 30g	54.3		mg/30g	1.000	01/08/20	J AOAC 2015 V98-6	
THC-A per 30g	< LOQ		mg/30g	1.000	01/08/20	J AOAC 2015 V98-6	
THC-Total per 30g	54.3		mg/30g	1.88	01/08/20	J AOAC 2015 V98-6	
THCV per 30g†	2.69		mg/30g	1.000	01/08/20	J AOAC 2015 V98-6	
THCV-A per 30g†	< LOQ		mg/30g	1.000	01/08/20	J AOAC 2015 V98-6	
THCV-Total per 30g†	2.69		mg/30g	1.87	01/08/20	J AOAC 2015 V98-6	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2000016	01/04/20	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2000016	01/04/20	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2000019	01/04/20	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2000019	01/04/20	AOAC 2014.05 (RAPID)	X

Testing in accordance with: OAR 333-007-0390 OAR 333-007-0410 OAR 333-007-0430

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Solvents **Method** EPA5021A **Units** µg/g **Batch** 2000066 **Analyze** 01/03/20 01:43 PM

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	

Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

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Pesticides **Method** AOAC 2007.01 & EN 15662 (mod) **Units** mg/kg **Batch** 2000026 **Analyze** 01/02/20 01:44 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	< 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	
Imazalil	< 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	< 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							

Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

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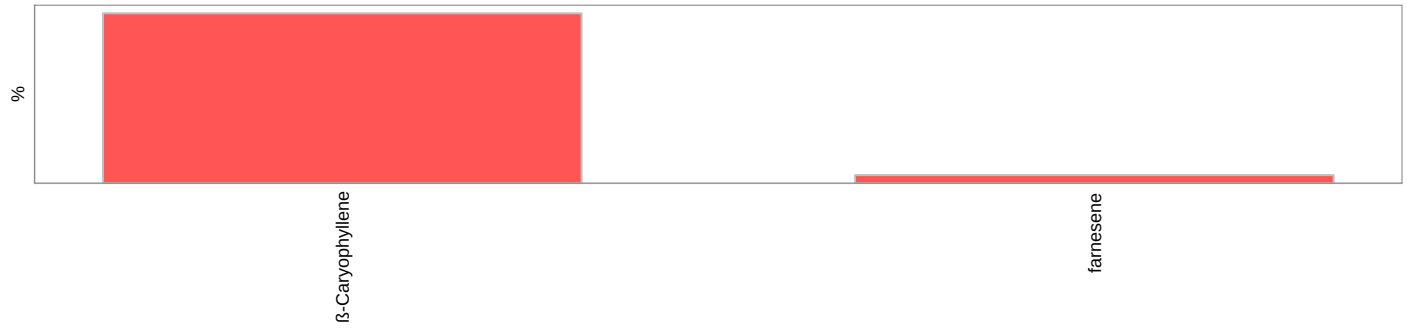
Terpenes **Method** J AOAC 2015 V98-6 **Units** % **Batch** 2000065 **Analyze** 01/03/20 01:38 PM

Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
ß-Caryophyllene†	0.0292	0.020	53.48%		farnesene†	0.0254	0.020	46.52%	
(-)-Guaiol†	< LOQ	0.020	0.00%		a-Bisabolol†	< LOQ	0.020	0.00%	
Humulene†	< LOQ	0.020	0.00%		(-)-a-Terpineol†	< LOQ	0.020	0.00%	
(-)-caryophyllene oxide†	< LOQ	0.020	0.00%		(-)-Isopulegol†	< LOQ	0.020	0.00%	
(-)-ß-Pinene†	< LOQ	0.020	0.00%		(+)-Borneol†	< LOQ	0.020	0.00%	
(+)-Cedrol†	< LOQ	0.020	0.00%		(+)-fenchol†	< LOQ	0.020	0.00%	
(+)-Pulegone†	< LOQ	0.020	0.00%		(±)-Camphor†	< LOQ	0.020	0.00%	
(±)-cis-Nerolidol†	< LOQ	0.020	0.00%		(±)-fenchone†	< LOQ	0.020	0.00%	
(±)-trans-Nerolidol†	< LOQ	0.020	0.00%		(R)-(+)-Limonene†	< LOQ	0.020	0.00%	
a-cedrene†	< LOQ	0.020	0.00%		a-phellandrene†	< LOQ	0.020	0.00%	
a-pinene†	< LOQ	0.020	0.00%		a-Terpinene†	< LOQ	0.020	0.00%	
Camphene†	< LOQ	0.020	0.00%		cis-ß-Ocimene†	< LOQ	0.006	0.00%	
d-3-Carene†	< LOQ	0.020	0.00%		Eucalyptol†	< LOQ	0.020	0.00%	
gamma-Terpinene†	< LOQ	0.020	0.00%		Geraniol†	< LOQ	0.020	0.00%	
Geranyl acetate†	< LOQ	0.020	0.00%		Isoborneol†	< LOQ	0.020	0.00%	
Linalool†	< LOQ	0.020	0.00%		Menthol†	< LOQ	0.020	0.00%	
nerol†	< LOQ	0.020	0.00%		p-Cymene†	< LOQ	0.020	0.00%	
Sabinene†	< LOQ	0.020	0.00%		Sabinene hydrate†	< LOQ	0.020	0.00%	
ß-Myrcene†	< LOQ	0.020	0.00%		Terpinolene†	< LOQ	0.020	0.00%	
trans-ß-Ocimene†	< LOQ	0.013	0.00%		valencene†	< LOQ	0.020	0.00%	
Total Terpenes	**0.0546**								



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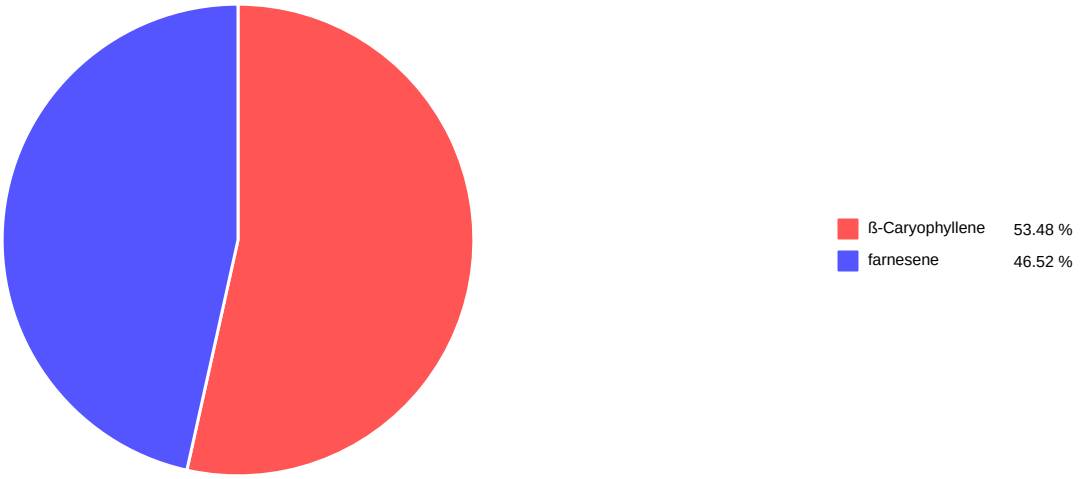

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.0458	2000069	01/03/20	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.0458	2000069	01/03/20	AOAC 2013.06 (mod.)	X
Lead	< LOQ		mg/kg	0.0458	2000069	01/03/20	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.0229	2000069	01/03/20	AOAC 2013.06 (mod.)	X

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Aflatoxin B1†	< LOQ		µg/kg	5.00	2000034	01/02/20	AOAC 2007.01 & EN 15662	
Aflatoxin B2†	< LOQ		µg/kg	5.00	2000034	01/02/20	AOAC 2007.01 & EN 15662	
Aflatoxin G1†	< LOQ		µg/kg	5.00	2000034	01/02/20	AOAC 2007.01 & EN 15662	
Aflatoxin G2†	< LOQ		µg/kg	5.00	2000034	01/02/20	AOAC 2007.01 & EN 15662	
Deoxynivalenol†	< LOQ		µg/kg	200	2000034	01/02/20	AOAC 2007.01 & EN 15662	
Fumonisin B1†	< LOQ		µg/kg	200	2000034	01/02/20	AOAC 2007.01 & EN 15662	
Fumonisin B2†	< LOQ		µg/kg	200	2000034	01/02/20	AOAC 2007.01 & EN 15662	
HT2-Toxin†	< LOQ		µg/kg	40.0	2000034	01/02/20	AOAC 2007.01 & EN 15662	
Nivalenol†	< LOQ		µg/kg	400	2000034	01/02/20	AOAC 2007.01 & EN 15662	
Ochratoxin A†	< LOQ		µg/kg	5.00	2000034	01/02/20	AOAC 2007.01 & EN 15662	
Ochratoxin B†	< LOQ		µg/kg	2.00	2000034	01/02/20	AOAC 2007.01 & EN 15662	
T2-Toxin†	< LOQ		µg/kg	20.0	2000034	01/02/20	AOAC 2007.01 & EN 15662	
Zearalenone†	< LOQ		µg/kg	200	2000034	01/02/20	AOAC 2007.01 & EN 15662	

Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

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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

cfu/g = Colony forming units per gram
g = Gram
µg/g = Microgram per gram
µg/kg = Micrograms per kilogram = parts per billion (ppb)
mg/kg = Milligram per kilogram = parts per million (ppm)
mg/1g = Milligram per 1g
mg/30g = Milligram per 30g
% = Percentage of sample
% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager

Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430