



Certificate of Analysis

COMPLIANCE FOR RETAIL

Sample:GA30510001-002
Harvest/Lot ID: HZFC5162-2305-20637
Batch#: LPC-45L-021323
Cultivation Facility: Gainesville Cultivation
Processing Facility : Gainesville Processing
Source Facility : Gainesville Cultivation
Seed to Sale# HZFC5162-2305-20637
Batch Date: 05/05/23
Sample Size Received: 16 gram
Total Amount: 819 units
Retail Product Size: 1 gram
Ordered: 05/10/23
Sampled: 05/10/23
Completed: 05/12/23
Sampling Method: SOP.T.20.010

May 12, 2023 | Liberty Health Sciences,
FL
18770 N CR 225
Gainesville, FL, 32609, US



PASSED

Pages 1 of 6

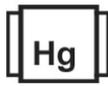
PRODUCT IMAGE



SAFETY RESULTS



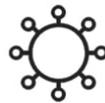
Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals Solvents
PASSED



Filtth
PASSED



Water Activity
PASSED



Moisture
NOT TESTED



Terpenes
TESTED

MISC.



Cannabinoid

PASSED



Total THC

75.619%

Total THC/Container : 756.19 mg



Total CBD

0.175%

Total CBD/Container : 1.75 mg



Total Cannabinoids

88.998%

Total Cannabinoids/Container : 889.98 mg

	D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	2.468	83.411	ND	0.2	ND	0.354	2.565	ND	ND	ND	ND
mg/unit	24.68	834.11	ND	2	ND	3.54	25.65	ND	ND	ND	ND
LOD	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
%	%	%	%	%	%	%	%	%	%	%	%

Analyzed by:
2507, 3192

Weight:
0.1018g

Extraction date:
05/10/23 12:58:58

Extracted by:
3655

Analysis Method : SOP.T.40.031, SOP.T.30.031
Analytical Batch : GA059957POT
Instrument Used : GA-HPLC-001 2030C Plus (Derivative)
Analyzed Date : 05/10/23 15:36:25

Reviewed On : 05/11/23 08:40:53
Batch Date : 05/09/23 16:30:26

Dilution : 400
Reagent : 030323.R43; 010421.44; 030823.07; 041423.R19; 032823.R09
Consumables : GA-169; 947.109; 21/05/14; 9291.271; LLS-00-0005; 12543-226CD-226C; R0NB32898; 46610-762A; 944C4 944J; 209598; 212516
Pipette : GA-003; GA-005; GA-007; GA-177

Full Spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection in accordance with F.S. Rule 64ER20-39.

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Miranda MacDonald
Lab Director



State License # CMTL-0001
ISO 17025 Accreditation # ISO/IEC
17025:2017 Accreditation P/LA-
Testing 97164

Signature
05/12/23



Certificate of Analysis

PASSED

Liberty Health Sciences, FL

18770 N CR 225
Gainesville, FL, 32609, US
Telephone: (833) 254-4877
Email: Qualityassurance@libertyhealthsciences.com

Sample : GA30510001-002
Harvest/Lot ID: HZFC5162-2305-20637

Batch# : LPC-45L-021323 Sample Size Received : 16 gram
Sampled : 05/10/23 Total Amount : 819 units
Ordered : 05/10/23 Completed : 05/12/23 Expires: 05/12/24
Sample Method : SOP.T.20.010

Page 2 of 6

Terpenes				TESTED			
Terpenes	LOD (%)	mg/unit %	Result (%)	Terpenes	LOD (%)	mg/unit %	Result (%)
TOTAL TERPENES	0.007	46.4	4.64	FARNESENE	0.001	0.41	0.041
TOTAL TERPINEOL	0.007	1.53	0.153	ALPHA-HUMULENE	0.007	3.7	0.37
ALPHA-BISABOLOL	0.007	2.54	0.254	VALENCENE	0.007	<1	<-0.1
ALPHA-PINENE	0.007	1.58	0.158	CIS-NEROLIDOL	0.007	ND	ND
CAMPHENE	0.007	<1	<-0.1	TRANS-NEROLIDOL	0.007	ND	ND
SABINENE	0.007	ND	ND	CARYOPHYLLENE OXIDE	0.007	<1	<-0.1
BETA-PINENE	0.007	1.76	0.176	GUAIOL	0.007	2.79	0.279
BETA-MYRCENE	0.007	2.41	0.241	CEDROL	0.007	ND	ND
ALPHA-PHELLANDRENE	0.007	ND	ND	Analyzed by: 2507, 2155, 3303, 3192 Weight: 0.9267g Extraction date: 05/10/23 14:23:34 Extracted by: 3575 Analysis Method: SOP.T.30.061A.FL, SOP.T.40.061A.FL Analytical Batch: GA059955TER Reviewed On: 05/12/23 09:00:20 Instrument Used: GA-GCMS-005 QP2020NX (Derivative) Batch Date: 05/09/23 16:07:04 Analyzed Date: 05/10/23 15:29:08 Dilution: 50 Reagent: 021123.R06; 032223.04; 010421.44 Consumables: 212823; 947.109; 21/05/14; 9291.271; LLS-00-0005; 89012-780; RONB32898; 46610-762A; 031C4 - 031 J; 206639 Pipette: GA-003; GA-005; GA-177; GA-211 Dispenser Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry. For all Flower samples, the Total Terpenes % is dry-weight corrected.			
3-CARENE	0.007	ND	ND				
ALPHA-TERPINENE	0.007	ND	ND				
LIMONENE	0.007	11.45	1.145				
EUCALYPTOL	0.007	ND	ND				
OCIMENE	0.007	1.95	0.195				
GAMMA-TERPINENE	0.007	ND	ND				
SABINENE HYDRATE	0.007	ND	ND				
TERPINOLENE	0.007	ND	ND				
FENCHONE	0.007	ND	ND				
LINALOOL	0.007	3.3	0.33				
FENCHYL ALCOHOL	0.007	1.99	0.199				
ISOPULEGOL	0.007	ND	ND				
CAMPHOR	0.013	ND	ND				
ISOBORNEOL	0.007	ND	ND				
BORNEOL	0.013	ND	ND				
HEXAHYDROTHYMOL	0.007	ND	ND				
NEROL	0.007	ND	ND				
PULEGONE	0.007	ND	ND				
GERANIOL	0.007	ND	ND				
GERANYL ACETATE	0.007	ND	ND				
ALPHA-CEDRENE	0.007	ND	ND				
BETA-CARYOPHYLLENE	0.007	10.99	1.099				
Total (%)			4.64				

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Miranda MacDonald
Lab Director

State License # CMTL-0001
ISO 17025 Accreditation # ISO/IEC
17025:2017 Accreditation P/LA-
Testing 97164

Signature
05/12/23



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Gainesville, FL, 32609, US
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Email: Qualityassurance@libertyhealthsciences.com

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Sample Method : SOP.T.20.010

Page 3 of 6

Pesticides						PASSED					
Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
TOTAL CONTAMINANT LOAD (PESTICIDES)	0.01	ppm	5	PASS	ND	OXAMYL	0.01	ppm	0.5	PASS	ND
TOTAL DIMETHOMORPH	0.01	ppm	0.2	PASS	ND	PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND
TOTAL PERMETHRIN	0.01	ppm	0.1	PASS	ND	PHOSMET	0.01	ppm	0.1	PASS	ND
TOTAL PYRETHRINS	0.01	ppm	0.5	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND
TOTAL SPINETORAM	0.01	ppm	0.2	PASS	ND	PRALLETHRIN	0.01	ppm	0.1	PASS	ND
TOTAL SPINOSAD	0.01	ppm	0.1	PASS	ND	PROPICONAZOLE	0.01	ppm	0.1	PASS	ND
ABAMECTIN B1A	0.01	ppm	0.1	PASS	ND	PROPOXUR	0.01	ppm	0.1	PASS	ND
ACEPHATE	0.01	ppm	0.1	PASS	ND	PYRIDABEN	0.01	ppm	0.2	PASS	ND
ACEQUINOCLYL	0.01	ppm	0.1	PASS	ND	SPIROMESIFEN	0.01	ppm	0.1	PASS	ND
ACETAMIPRID	0.01	ppm	0.1	PASS	ND	SPIROTETRAMAT	0.01	ppm	0.1	PASS	ND
ALDICARB	0.01	ppm	0.1	PASS	ND	SPIROXAMINE	0.01	ppm	0.1	PASS	ND
AZOXYSTROBIN	0.01	ppm	0.1	PASS	ND	TEBUCONAZOLE	0.01	ppm	0.1	PASS	ND
BIFENAZATE	0.01	ppm	0.1	PASS	ND	THIACLOPRID	0.01	ppm	0.1	PASS	ND
BIFENTHRIN	0.01	ppm	0.1	PASS	ND	THIAMETHOXAM	0.01	ppm	0.5	PASS	ND
BOSCALID	0.01	ppm	0.1	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	0.1	PASS	ND
CARBARYL	0.01	ppm	0.5	PASS	ND	PENTACHLORONITROBENZENE (PCNB) *	0.01	PPM	0.15	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	PARATHION-METHYL *	0.01	PPM	0.1	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	1	PASS	ND	CAPTAN *	0.07	PPM	0.7	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	1	PASS	ND	CHLORDANE *	0.01	PPM	0.1	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	CHLORFENAPYR *	0.01	PPM	0.1	PASS	ND
CLOFENTEZINE	0.01	ppm	0.2	PASS	ND	CYFLUTHRIN *	0.05	PPM	0.5	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND	CYPERMETHRIN *	0.05	PPM	0.5	PASS	ND
DAMINOZIDE	0.01	ppm	0.1	PASS	ND						
DIAZINON	0.01	ppm	0.1	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
DICHLORVOS	0.01	ppm	0.1	PASS	ND	795, 3303, 3192	0.2379g	05/10/23 20:37:31	795		
DIMETHOATE	0.01	ppm	0.1	PASS	ND	Analysis Method : SOP.T.30.101.FL (Gainesville), SOP.T.30.102.FL (Davie), SOP.T.40.101.FL (Gainesville), SOP.T.40.102.FL (Davie)					
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND	Analytical Batch : DA060028PES Reviewed On : 05/12/23 08:46:31					
ETOFENPROX	0.01	ppm	0.1	PASS	ND	Instrument Used : DA-LCMS-004 (PES) Batch Date : 05/10/23 20:33:05					
ETOXAZOLE	0.01	ppm	0.1	PASS	ND	Analyzed Date : N/A					
FENHEXAMID	0.01	ppm	0.1	PASS	ND	Dilution : 250					
FENOXYCARB	0.01	ppm	0.1	PASS	ND	Reagent : 050823.R10; 050923.R04; 051023.R18; 051023.R47; 042623.R45; 051023.R16; 040521.11					
FENPYROXIMATE	0.01	ppm	0.1	PASS	ND	Consumables : 6697075-02					
FIPRONIL	0.01	ppm	0.1	PASS	ND	Pipette : DA-093; DA-094; DA-219					
FLONICAMID	0.01	ppm	0.1	PASS	ND	Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
FLUDIOXONIL	0.01	ppm	0.1	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
HEXYTHIAZOX	0.01	ppm	0.1	PASS	ND	2155, 3303, 3192	0.8928g	05/10/23 18:03:56	3575,3655		
IMAZALIL	0.01	ppm	0.1	PASS	ND	Analysis Method : SOP.T.30.151.FL (Gainesville), SOP.T.30.151A.FL (Davie), SOP.T.40.151.FL					
IMIDACLOPRID	0.01	ppm	0.4	PASS	ND	Analytical Batch : GA060015VOL Reviewed On : 05/12/23 10:15:15					
KRESOXIM-METHYL	0.01	ppm	0.1	PASS	ND	Instrument Used : GA-GCMS-006 Batch Date : 05/10/23 12:10:44					
MALATHION	0.01	ppm	0.2	PASS	ND	Analyzed Date : 05/10/23 18:26:43					
METALAXYL	0.01	ppm	0.1	PASS	ND	Dilution : 50					
METHIOCARB	0.01	ppm	0.1	PASS	ND	Reagent : 051123.R18; 032823.R34; 011122.06					
METHOMYL	0.01	ppm	0.1	PASS	ND	Consumables : 947.109; 21/05/14; 9291.271; LLS-00-0005; 210419634; 296055173; 55447-U.15143701; 944C4 944; 209598; 212516					
MEVINPHOS	0.01	ppm	0.1	PASS	ND	Pipette : GA-003; GA-007; GA-177					
MYCLOBUTANIL	0.01	ppm	0.1	PASS	ND	Testing for agricultural agents is performed utilizing Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
NALED	0.01	ppm	0.25	PASS	ND						

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Sample Size Received : 16 gram

Total Amount : 819 units

Completed : 05/12/23 Expires: 05/12/24

Sample Method : SOP.T.20.010

Page 4 of 6



Residual Solvents

PASSED

Solvents	LOD	Units	Action Level	Pass/Fail	Result
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	2	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONE	75	ppm	750	PASS	ND
ACETONITRILE	6	ppm	60	PASS	ND
BENZENE	0.1	ppm	1	PASS	ND
BUTANES (N-BUTANE)	500	ppm	5000	PASS	<2500
CHLOROFORM	0.2	ppm	2	PASS	ND
DICHLOROMETHANE	12.5	ppm	125	PASS	ND
ETHANOL	500	ppm	5000	PASS	ND
ETHYL ACETATE	40	ppm	400	PASS	ND
ETHYL ETHER	50	ppm	500	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
METHANOL	25	ppm	250	PASS	ND
N-HEXANE	25	ppm	250	PASS	ND
PENTANES (N-PENTANE)	75	ppm	750	PASS	ND
PROPANE	500	ppm	5000	PASS	ND
TOLUENE	15	ppm	150	PASS	ND
TOTAL XYLENES	15	ppm	150	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	25	PASS	ND

Analyzed by: 2155, 3303, 2338, 3192	Weight: 0.0277g	Extraction date: 05/10/23 16:47:18	Extracted by: 2155
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Analysis Method : SOP.T.40.041.FL Analytical Batch : GA06002250L Instrument Used : GA-GCMS-001 Headspace Solvent Analyzed Date : 05/10/23 17:00:56	Reviewed On : 05/12/23 10:19:50 Batch Date : 05/10/23 14:57:44
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Dilution : N/A
 Reagent : 010421.47
 Consumables : R2017.167; 854996
 Pipette : GA-253

Residual solvents analysis is performed utilizing Gas Chromatography Mass Spectrometry in accordance with with F.S. Rule 64ER20-39.

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Sample Method : SOP.T.20.010

Page 5 of 6

	Microbial	PASSED		Mycotoxins	PASSED
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Analyte	LOD	Units	Result	Pass / Fail	Action Level
ECOLI SHIGELLA			Not Present	PASS	
SALMONELLA SPECIFIC GENE			Not Present	PASS	
ASPERGILLUS FLAVUS			Not Present	PASS	
ASPERGILLUS FUMIGATUS			Not Present	PASS	
ASPERGILLUS TERREUS			Not Present	PASS	
ASPERGILLUS NIGER			Not Present	PASS	
TOTAL YEAST AND MOLD	10	CFU/g	<10	PASS	100000

Analyzed by: 3721, 3303, 3192 **Weight:** 0.9592g **Extraction date:** 05/10/23 14:21:39 **Extracted by:** 3793
Analysis Method : SOP.T.40.056C, SOP.T.40.058.FL, SOP.T.40.209.FL
Analytical Batch : GA060007MIC **Reviewed On :** 05/12/23 15:23:03
Instrument Used : GA-200 Bacterial / GA-102 Fungal Incubators **Batch Date :** 05/10/23 11:00:53
Analyzed Date : 05/11/23 09:46:07
Dilution : 10
Reagent : 092022.51
Consumables : GA-186; 010205; 262202; 013209; 007109; P-21557211R
Pipette : GA-154

Analyte	LOD	Units	Result	Pass / Fail	Action Level
AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
OCHRATOXIN A	0.002	ppm	ND	PASS	0.02
AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
AFLATOXIN G2	0.002	ppm	ND	PASS	0.02

Analyzed by: 795, 3303, 3192 **Weight:** 0.2379g **Extraction date:** 05/10/23 20:37:31 **Extracted by:** 795
Analysis Method : SOP.T.30.101.FL (Gainesville), SOP.T.40.101.FL (Gainesville), SOP.T.30.102.FL (Davie), SOP.T.40.102.FL (Davie)
Analytical Batch : DA060029MYC **Reviewed On :** 05/12/23 08:50:09
Instrument Used : DA-LCMS-004 (MYC) **Batch Date :** 05/10/23 20:34:47
Analyzed Date : N/A
Dilution : 250
Reagent : 050823.R10; 050923.R04; 051023.R18; 051023.R47; 042623.R45; 051023.R16; 040521.11
Consumables : 6697075-02
Pipette : DA-093; DA-094; DA-219

Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.

Analyte	LOD	Units	Result	Pass / Fail	Action Level
TOTAL YEAST AND MOLD	10	CFU/g	<10	PASS	100000

Analyzed by: 3721, 3303, 3192 **Weight:** 0.9592g **Extraction date:** 05/10/23 14:21:39 **Extracted by:** 3793
Analysis Method : SOP.T.40.208 (Gainesville), SOP.T.40.209.FL
Analytical Batch : GA060008TYM **Reviewed On :** 05/12/23 15:23:49
Instrument Used : GA-102 Fungal Incubator (TYM) **Batch Date :** 05/10/23 11:01:05
Analyzed Date : 05/11/23 09:39:25
Dilution : 10
Reagent : 092022.51
Consumables : GA-186; 007109; P-21557211R
Pipette : GA-154

Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.

Metal	LOD	Units	Result	Pass / Fail	Action Level
TOTAL CONTAMINANT LOAD METALS	0.08	ppm	ND	PASS	1.1
ARSENIC	0.02	ppm	ND	PASS	0.2
CADMIUM	0.02	ppm	ND	PASS	0.2
MERCURY	0.02	ppm	ND	PASS	0.2
LEAD	0.02	ppm	ND	PASS	0.5

Analyzed by: 3721, 2507, 3303, 3192 **Weight:** 0.2283g **Extraction date:** 05/11/23 09:08:37 **Extracted by:** 3571,3721
Analysis Method : SOP.T.30.082.FL, SOP.T.40.082.FL
Analytical Batch : GA059963HEA **Reviewed On :** 05/12/23 08:48:09
Instrument Used : GA-ICPMS-002 **Batch Date :** 05/09/23 18:32:46
Analyzed Date : 05/11/23 18:30:42
Dilution : 50
Reagent : 042723.R27; 050623.R01; 071522.04; 010421.45; 011523.R02; 110122.R06; 011523.R03; 040723.R30
Consumables : 12532-225CD-225C; GA-194; GA-195; 209598
Pipette : GA-012

Heavy Metals analysis is performed using Inductively Coupled Plasma Mass Spectrometry in accordance with F.S. Rule 64ER20-39.

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Miranda MacDonald
Lab Director



State License # CMTL-0001
ISO 17025 Accreditation # ISO/IEC
17025:2017 Accreditation P/LA-
Testing 97164

Signature
05/12/23



Certificate of Analysis

PASSED

Liberty Health Sciences, FL

18770 N CR 225
Gainesville, FL, 32609, US
Telephone: (833) 254-4877
Email: Qualityassurance@libertyhealthsciences.com

Sample : GA30510001-002
Harvest/Lot ID: HZFC5162-2305-20637
Batch# : LPC-45L-021323
Sample Size Received : 16 gram
Sampled : 05/10/23
Ordered : 05/10/23
Total Amount : 819 units
Completed : 05/12/23 Expires: 05/12/24
Sample Method : SOP.T.20.010

Page 6 of 6



Filth/Foreign Material PASSED

Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	0.1	%	ND	PASS	1

Analyzed by: 3575, 3655, 3192 Weight: 14.8388g Extraction date: 05/10/23 11:32:37 Extracted by: 3575

Analysis Method : SOP.T.40.090
Analytical Batch : GA060004FIL Reviewed On : 05/10/23 16:24:34
Instrument Used : GA-Filth/Foreign Material Microscope Batch Date : 05/10/23 10:48:52
Analyzed Date : N/A

Dilution : N/A
Reagent : N/A
Consumables : N/A
Pipette : N/A

Filth and foreign material inspection is performed by visual inspection utilizing naked eye and microscope technologies in accordance with F.S. Rule 64ER20-39.



Water Activity PASSED

Analyte	LOD	Units	Result	P/F	Action Level
Water Activity	0.01	aw	0.531	PASS	0.85

Analyzed by: 3655, 3575, 3192 Weight: 1.0478g Extraction date: 05/10/23 14:40:59 Extracted by: 3655

Analysis Method : SOP.T.40.019
Analytical Batch : GA060019WAT Reviewed On : 05/10/23 17:30:55
Instrument Used : GA-085 Rotronic HygroPalm Batch Date : 05/10/23 12:13:33
Analyzed Date : 05/10/23 14:52:33

Dilution : N/A
Reagent : N/A
Consumables : 107264
Pipette : N/A

Water Activity is performed using a Rotronic HygroPalm HP 23-AW in accordance with F.S. Rule 64ER20-39.

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