



261 Mountain View Dr
 Colchester, VT 05446
 License #: TLAB0030
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Certificate of Analysis

Client Name: VT Green Castle Reserve
License Number: SCLT0023



Sample ID: VT5136
Sample Name: Planet of the Grapes
Sample Lot: MANU0031-70
Sample Matrix: Mechanical Extraction Concentrates
Date Received: 11/16/2023
Date Reported: 11/22/2023
Date Tested: 11/21/2023

Total Cannabinoids		
	%	mg/g
Total THC:	63.058	630.580
Total CBD:	--	--
Total Cannabinoids:	72.190	721.902

Total theoretical CBD % = (CBD%) + (CBDA% * 0.877)
Total theoretical THC % = (delta-9-THC%) + (THCA% * 0.877)

Potency

Standard potency analysis utilizing High Performance Liquid Chromatography (HPLC; SOP-024-0A) | Test ID: #14277

Analyte	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	ND	ND	0.0003	0.0040
CBCA	< LOQ	< LOQ	0.0002	0.0040
CBD	< LOQ	< LOQ	0.0008	0.0040
CBDA	ND	ND	0.0002	0.0040
CBDV	ND	ND	0.0008	0.0040
CBDVA	ND	ND	0.0001	0.0040
CBG	< LOQ	< LOQ	0.0009	0.0040
CBGA	0.6207	6.207	0.0001	0.0040
CBN	ND	ND	0.0004	0.0040
CBNA	ND	ND	0.0002	0.0040
D8 THC	ND	ND	0.0012	0.0040
D9 THC	2.3706	23.706	0.0016	0.0049
D10 THC	ND	ND	0.0004	0.0040
THCA	69.1989	691.989	0.0002	0.0040
THCV	ND	ND	0.0016	0.0049
THCVA	< LOQ	< LOQ	0.0002	0.0040



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Pathogens PASS

Microbiological screening utilizing qPCR (SOP-204-OA) | Test ID: #14279

Analyte	Result	Pass/Fail
A. Fumigatus	None Detected	PASS
A. Niger	None Detected	PASS
A. Flavus	None Detected	PASS
A. Terreus	None Detected	PASS
STEC	None Detected	PASS
Salmonella	None Detected	PASS



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Total Terpenes (%) : 7.6926

Dominant Terpenes (%)	
beta-caryophyllene	2.393
Limonene	1.8205
Ocimene	0.7222
alpha-Humulene	0.6705
beta-Pinene	0.5323

Terpenes

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069-OA) | Test ID: #14278

Analyte	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)
3-Carene	ND	ND	0.000002	0.002
alpha-Bisabolol	0.462	4.62	0.000003	0.002
alpha-Humulene	0.6705	6.705	0.000002	0.002
alpha-Pinene	0.4207	4.207	0.000001	0.002
alpha-Terpinene	ND	ND	0.000001	0.002
alpha-Terpinolene	< LOQ	< LOQ	0.000004	0.002
beta-caryophyllene	2.393	23.93	0.000004	0.002
beta-Pinene	0.5323	5.323	0.000002	0.002
Camphene	0.0818	0.818	0.000001	0.002
Caryophyllene Oxide	0.0994	0.994	0.000011	0.002
Cineole	ND	ND	0.000002	0.002
gamma-Terpinene	ND	ND	0.000002	0.002
Geraniol	ND	ND	0.000008	0.002
Guaiol	ND	ND	0.000007	0.002
Isopulegol	ND	ND	0.000005	0.002
Isopropyl Toluene	ND	ND	0.000003	0.002
Limonene	1.8205	18.205	0.000002	0.002
Linalool	0.1633	1.633	0.000003	0.002
Nerolidol	0.0759	0.759	0.000007	0.002
Myrcene	0.251	2.51	0.000003	0.002
Ocimene	0.7222	7.222	0.000002	0.002
Total Terpenes	7.6926	76.926		