

License No. 403H-68812

Report Date: 1/5/2019

LABS ISOLATE-LOT #372A

Potency Test Report

Sample: GX333H-I (Isolate)

Sample Received: 1/4/2019

METRC No. 1A400071267FAAC000001081

Harvest/Production Batch:

ltem Notes: Reported percentages are derived from quantifying all detected organic, cannabinoid-like material. Other contaminants such as water, solvents, or inorganic materials (metals, etc), may be present, but will not be detected by this methodology and therefore will not be included in the final ne

CANNABI		OIDLEVELS	TOTAL THC*: N/D		TOTAL CBD*: 99.26%	BD*: 9	9.26%	8	
	%	mg/gram	THC + THC-A*, % by weight		CBD + CBD-A*, % by weight	Δ*, % by	weight		
THC	N/D	N/D				_			
THC-A	ND	N/D	THC Total			-			
CBD	99.26%	992.64	) - -						
CBD-A	ND	N/D	CBD lotal				_		
CBN	Z/D	N/D	OBO Total				01-1	***************************************	
CBG	Z/D	N/D							
CBG-A	N/D	N/D	CBZ						
CBC	N/D	N/D	( !					<del></del>	
THCV	N/D	N/D	CBC						
Total	99.26%	992.64	THCV			***************************************			
			0% 10%	20% 30% 40%	50% 60%	60% 70%		80% 90% 100% 110%	6 100

acidic cannabinaids such as CBDA. Depending on the nature of the product being analyzed, the "Total" value may be expressed as either mg/g, mg/mL or as a percentage by weight. \*Total THC = THC + (THCA · 0.877). This formula is derived from the fact that the THCA molecule loses mass (carbon dioxide) during conversion to THC (known as decarboxylation). Similar conversion factors are used for other

N/D = Not Detected; below our limit of accurate quantitation for the test.

Sample GX333H-I

The Biochemistan of Marijuano Director

for bias and imprecision are met. The LLOQ for this assay is fixed at 2.5 g/mL (= 0.0025 mg/mL), although the percentage by weight this equates to in the product will vary according to the actual dilution factor used for the LLOQ = Concentrations are below the Lower Limit of Quantitation (LLOQ) for this assay. LLOQ is defined as the lowest concentration at which the cnalyte can not only be reliably detected, but at which some predefined goal.



family, they have remarkable medical properties. Cannabinoids have been shown to have widely varied effects, including psychoactivity, pain relief, nausea relief, anti-inflammatory, anti-bacterial and anti-The major active components of marijuana are a family of compounds known as cannabinoids. There are over 60 different identified cannabinoids, though only a handful have been closely studied, as a

Cannabinoids are effective because they mimic natural neurotransmitters - the chemical messengers between cells - that act in the human brain and throughout the body. Different cannabinoids interact with strain of marijuana are largely governed by the plant's genetics and maturity at harvest, while the total levels of cannabinoids are dictated both by genetics and the overall quality of the growing conditions. the body in complex ways. Some compounds enhance or inhibit the effects of others, or help alleviate the side effects that one compound alone might cause. The mix of different cannabinoids in a particular

THC, or delta-9 tetrahydrocannabinol, is the primary psychoactive component of marijuana. It is responsible for the high of marijuana, and is likely the direct or indirect cause of unwanted side effects such as anxiety, detachment and paranoia. When marijuana is harvested, THC is primarily present in its "inactive", acidic form, known as THC-A, which has little psychoactive effect. As marijuana cures, the THC-A partially converts to THC; the conversion is accelerated as marijuana is heated during cooking or smoking.

side effects of THC, including sleepiness and loss of memory. CBD, or cannabidiol, is the second most prominent and studied cannabinoid, and is the major cannabinoid in "hemp-type" marijuana. CBD has many effects in itself, and it also appears to alleviate many of the

CBN, or cannabinol, is the breakdown product of THC; high levels indicate that the marijuana may be relatively old or has been stored at high temperatures

Research has demonstrated these properties, among others, of the different cannabinoids:

CBD
Relieves anxiety Induces sleep
CBD Induces sleep
2.000

many of the 100 or more terpene compounds that give marijuana its characteristic smell. Other medicinal components of marijuana: In addition to the cannabinoids, there are a number of other compounds in marijuana that are believed to have psychoactive or medicinal properties. These include

For more information about the components and medicinal effects of marijuana, or links to research articles on these subjects, please visit our web site, www.rm3.us

## 2m3's Testing Methods

ensure the purity and strength of products. For each test, the client provides us a small sample of the product. We extract the cannabinoids from the sample, and then separate the individual components. At Rm3 Labs we use a testing methodology known as High-Performance Liquid Chromatography, or HPLC. This method is widely used in the herbal, nutritional supplement and pharmaceutical industries to Analysis of the separated components is done by computer.

effect of particularly moist storage conditions on the sample. End users should inspect the product they receive for excessive seeds, stems or moisture levels. In analyzing samples, we screen out seeds and large stems, as including them in the sample may produce large variations in results. Cannabinoids are measured as a percentage of dry weight, to eliminate the

## The Limitations of our Test Methods

We do not test an entire "batch" of product; we only test the sample provided by the client. When testing marijuana, we ask for as representative a sample as possible; however, it is possible that the product received by a patient may be materially different from the sample we've tested.

There are currently no established protocols for marijuana testing in the U.S. As a result, each lab uses its own procedures, and results from different labs may not be directly comparable

client has represented that product from which the sample has been taken is being held by the client in full compliance with Colorado state and local marijuana laws, and such product or any product made therefrom will only be offered for sale in compliance with such laws. Results of our tests, and this report, may be used or displayed only by the client and only in connection with the batch of product from which the test sample was taken. By submitting a sample for analysis, the