



# Potency Test Report

Sample **EQ123**

Sample Received: 5/8/2017

Report Date: 5/9/2017

## CC BRANDS LLC

License No. 404R-00047

Item Type: Edible

Item Notes: **#159 - INFUSED (EDIBLE)**

## CHEEBA CHEW - HYBRID CARAMEL 8 PAK (80MG)

METRC No. 1A40003126874AF000023625

### CANNABINOID LEVELS

	mg/gram	mg/unit
THC	3.53	10.48
THC-A*	0.07	0.21
CBD	N/D	N/D
CBD-A*	N/D	N/D
CBN	< LOQ	< LOQ
CBG	0.07	0.21
CBG-A*	< LOQ	< LOQ
CBC	0.06	0.17
THCV	N/D	N/D
<b>Total</b>	<b>3.73</b>	<b>11.07</b>

### ADDITIONAL INFORMATION

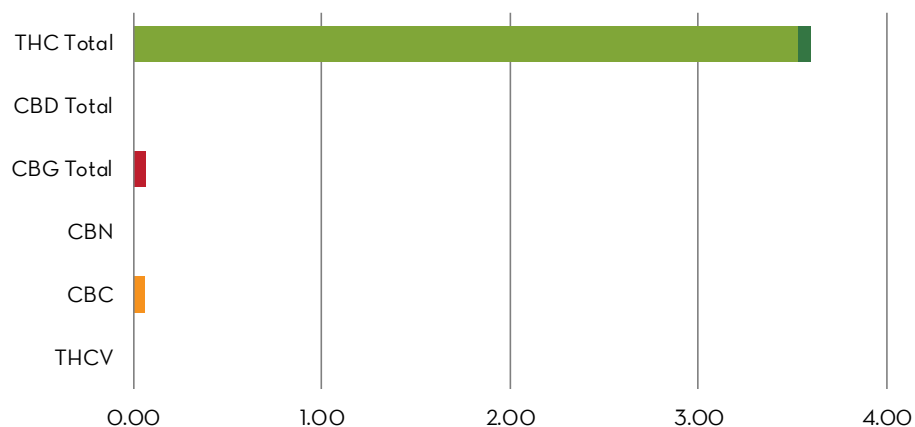
Total Package Wt. (g)	25.84
THC Conversion**	98.0%
Within Permitted Variance	PASS

### TOTAL THC: 91.2MG

THC per package

### TOTAL CBD: N/D

CBD per package



RM3 ID	WT (G)	MG THC/G	MG THC	MG CBD/G	MG CBD
EQ123A	2.97	3.54	10.51	N/D	N/D
EQ123B	2.97	3.52	10.45	N/D	N/D
<b>Averages</b>	<b>2.97</b>	<b>3.53</b>	<b>10.48</b>	<b>-</b>	<b>-</b>

### A 25.84g package contains 91.2mg THC

\* Inactive, acidic forms of the THC, CBD and CBG molecules, which convert to the active forms given time and/or heat. Acidic counts are adjusted to account for the greater weight of the acidic molecules.

\*\* This shows the amount of initial THC-A converted to THC by the time of testing. At harvest, this number is near zero. For well-cured plant material, this figure generally ranges from 5% to 20%. For edibles and tinctures, this number should be over 85%. (This is for marijuana only, not industrial hemp)

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

< LOQ = Values below the limit of quantitation are outside the range of accuracy.

Sample **EQ123**



**The Biochemistry of Marijuana**

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 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-cancer effects.

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 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 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.

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.

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 side effects of THC, including sleepiness and loss of memory.

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:

THC	CBD	CBN	Other Cannabinoids*
Psychoactivity	Relieves anxiety	Induces sleep	Psychoactivity
Relieves pain	Relieves pain	Antibacterial	Reduce Inflammation
Induces sleep	Reduces inflammation		Relieve pain
Reduces inflammation	Anti-oxidant		Antibacterial
Anti-oxidant	Antipsychotic		Antifungal
Reduces nausea	Reduces heart rate		
Reduces intraocular pressure in glaucoma	Reduces blood pressure		* Includes cannabichromene (CBC), cannabigerol (CBG) and tetrahydrocannabivarin (THCV).
Protects nervous system	Reduces muscle spasms		
	Reduces THC side effects		

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 many of the 100 or more terpene compounds that give marijuana its characteristic smell.

*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](http://www.rm3.us).*

**Rm3’s Testing Methods**

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 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. Analysis of the separated components is done by computer.

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 effect of particularly moist storage conditions on the sample. End users should inspect the product they receive for excessive seeds, stems or moisture levels.

**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 medical 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.

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 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.