

# ★ LUCKY ★ TURTLE ★

## **RAW MATERIALS**

Quality of raw materials dictates final product quality. We painstakingly source only the highest quality cultivars that grow without the use synthetic chemical pesticides and we will not accept contaminated cannabis period. Realizing the questionable practices of some companies selling vape cartridges for dirt cheap, we started the campaign "Say Nope to Remediated Dope". We only work with a handful of cultivations that have undergone our internal auditing process.

We perform 100% visual and olfactory inspection on all incoming cannabis. Each production batch uses just 4-5 pounds of cannabis. Most large manufacturers use 20 to 500 pounds! Our small batch inspection allows for through detection of contamination

## **PROCESS**

Small batch. Strain specific. With only 5 pounds of material, maintaining strain-specific batches every time is more manageable. This means customers are authentically getting strain-specific cultivars. Large processors simply can't do this.

Data Integrity. We employ GMP documentation for our entire facility including our Standard Operating Procedures (SOPs) and Batch Production Records (BPRs). Our BPRs require production staff to document every step followed in the manufacture stamped with an initial and date. Our GMP Documentation was reviewed by the Denver Health Department during an audit of our process, they noted our procedures were "the best they have seen in industry."

100% QC check of vape cartridges. With highly accurate fill machines, scale weight checks, and electrical testing of every vape cartridge circuit to ensure seal integrity and resistance, we rarely see returns due to cartridge failures, an issue that has plagued many of our competitors.

No additives. Ever. This is one of the problems we sought to end with cannabis vapes. There are common additives in the industry we won't touch including Vegetable Glycerin, Propylene Glycol, Polyethylene Glycol, Vitamin E Acetate, MCT oil, or coconut oil. Our ingredients list is simple: cannabis oil, cannabis terpenes, and select botanical terpenes. All our botanical terpenes are high quality, certified solvent-free, and contain no additives.

[luckyturtle.co/biotechgrade](http://luckyturtle.co/biotechgrade)

## **PEOPLE**

We have a formal, documented training program for all our CO<sub>2</sub> extraction and Production Associates. This training includes aseptic lab technique straight from our biotechnology background. We minimize potential extrinsic contaminants from making their way from the environment or Lucky Turtle staff into products through these detailed cleanroom practices.

This concept is simple – company that cares about their staff produces staff that care about the company. Our team is trained and understands our mission to produce safe products consistently. We often hear phrases like "Team Turtle" and "Turtle Power" in emails and comments in the lab.

Trusted lab partner. All our final products are independently tested. Not all labs are the same and we have audited the validation packages and practices employed by our testing partner. Trusting our lab is key to ensuring the identity, strength, quality, purity and potency of our products.

## **TECHNOLOGY**

Extraction using only clean CO<sub>2</sub>. We chose CO<sub>2</sub> due to its safety profile, commonly used in industry to produce therapeutic grade botanicals, sustainable in terms of environmental impact, and one of few organic-certified extraction methods.

We designed and built our manufacturing facility with unidirectional process flow. This concept, used in the biotech industry, lends to an organized production process, reduces the chance of errors, and produces a cleaner final product. For example, upstream processing (particles from grinding trim) will not enter the downstream process.

Our CO<sub>2</sub> extractors are made by Waters Corporation. We selected them for several reasons. Waters is a trusted, long-time manufacturer of biopharmaceutical grade equipment. They understand the importance of making an unadulterated product and design their systems appropriately. With our risk-based approach we sought to use equipment that uses materials that will not leach contaminants into the process. Additionally, we realized the Waters system is one of the few that do not carry the risk of leaking hydraulic or lubricating oil into the product contact side of equipment.

We use vape hardware that is effective and safe. Customers want vape hardware that is free from failures and produces a proper vape cloud. Safety is the other major concern. Lucky Turtle only uses heavy metal certified free cartridges that are manufactured in a GMP facility. This testing is required in Michigan and California and is expected to enter the Colorado laws later this year. We have been ahead of this curve for years!