



## Product Guide

*Vantage Hemp Co. is North America's only WHO GMP, FDA 21 CFR 210/211, and ICH Q7 certified hemp processor. From raw crude to registered pharmaceutical APIs and manufactured finished goods, trust Vantage Hemp.*

2337 115th Avenue,  
Greeley, CO 80634  
General: 720-633-6082  
Sales: 732-788-5353  
[vantagehemp.com](http://vantagehemp.com)



# Introducing Vantage Hemp Co.

As a leader in pharmaceutical grade CBD, Vantage Hemp has achieved various cGMP certifications, including WHO GMP, ICH Q7, and FDA 21 CFR 210/211. These certifications demonstrate our commitment to rigorous quality standards and global pharmaceutical norms as we continually innovate in the plant-based wellness space.

WHO GMP certification, issued by the World Health Organization, is internationally recognized and ensures that Vantage Hemp's manufacturing facilities and processes meet global pharmaceutical norms. This certification signifies that the company complies with WHO's guidelines for the production and quality control of medicinal products, including hemp-derived products like CBD.

ICH Q7, developed by the International Council for Harmonisation of Technical Requirements for Pharmaceuticals for Human Use (ICH), is another significant standard that Vantage Hemp adheres to. ICH Q7 specifically focuses on the production of active pharmaceutical ingredients (APIs) and addresses Good Manufacturing Practice for APIs.

FDA 21 CFR 210/211 refers to the Code of Federal Regulations that governs cGMP in the United States. By obtaining this certification, Vantage Hemp assures its customers and regulatory authorities that its operations align with the FDA's stringent regulations, which are considered some of the most comprehensive in the world.

By obtaining and maintaining these cGMP certifications, Vantage Hemp demonstrates its ongoing commitment to continuous improvement, safety, and quality in an evolving and highly regulated marketplace. As the market for plant-based pharmaceuticals continues to grow, such certifications will remain crucial in distinguishing reputable companies like Vantage Hemp and ensuring consumer confidence in our products.





# Pharmaceutical Grade CBD APIs

Drug developers require ingredient APIs that are manufactured to internationally recognized standards.

- **Trust:** APIs that meet cGMP standards are less likely to contain impurities or contaminants that could compromise the integrity of clinical trials and, ultimately, patient safety.
- **Efficacy:** APIs manufactured to cGMP standards are more likely to deliver the desired therapeutic effects consistently.
- **Regulatory Compliance:** Vantage Hemp's certifications, including FDA 21 CFR 210/211, are especially valuable in the US market, as they align with the country's strict pharmaceutical regulations, while WHO GMP, ICH Q7, and PIC/S provide access to global pharmaceutical markets.
- **Reputation and Trust:** Partnering with reputable suppliers like Vantage Hemp, who hold internationally recognized certifications, enhances the credibility of drug developers and fosters trust among stakeholders, including regulatory agencies, investors, and patients.

For CBD drug developers, having access to Vantage Hemp's DMFs can streamline the drug development process significantly. When incorporating CBD Distillate (DMF #036876) or CBD Isolate (DMF #037784) into investigational drugs, developers can reference Vantage Hemp's DMFs in their own regulatory submissions, reducing the burden of redundant information submission and accelerating the approval process. It also provides assurance that the CBD ingredients used in their drugs are of the highest quality, meeting strict cGMP standards, and free from potential contaminants.

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# Drug Master Files (DMF)



## **CBD Distillate**

**536475028**

THC compliant full spectrum distillate - <0.3% THC - Potent, pure, and versatile. Vantage specializes in producing high-quality CBD distillates that are perfect for use in a variety of products from CBD oil formulations, to capsules or softgels, and topicals or vapes. As an industry leader, Vantage has registered a Drug Master File (DMF #036876) with the US Food and Drug Administration for its CBD Distillate.



## **CBD Isolate**

**536465700**

As CBD products become more and more popular amongst patients and healthcare professionals, CBD Isolate remains the most versatile delivery format. CBD Isolate is used in foods, topicals, tinctures, edibles, softgels, and gel caps – with many novel applications and formulations released every day. Vantage Hemp CBD Isolate API is registered with a Drug Master File (DMF #037784) at the FDA.



# Bulk Extracts

With access to large quantities of certified hemp biomass, a large-scale, high-volume extraction facility, state-of-the-art technology, and a meticulous focus on every detail from seed to sale, Vantage Hemp has developed an advanced, industry-leading process capable of producing large quantities of pharmaceutical-grade CBD. Our wholesale CBD product range includes CBD full spectrum oils, CBD distillates, and CBD isolates.

NAME	DESCRIPTION
Hydro-C FSO	Hydrocarbon extracted full spectrum oil
CO2 FSO	CO2 extracted full spectrum oil
CO2 Crude	CO2 extracted crude hemp oil
T-Free Distillate	THC free distillate - non-detectable THC
T-Compliant FSO	THC compliant full spectrum oil
T-Free FSO	THC free - non-detectable - full spectrum oil

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# The Vantage Brand

These tinctures, roll-ons, gummies, and gelcaps are manufactured to WHO GMP, ICH Q7, and FDA 21 CFR 210/211 pharmaceutical standards.

## Full Spectrum 3000 mg CBD

Only a small fraction of CBD products have the same certifications as Vantage Hemp's CBD Oil 3000 mg. Based on a recent study conducted on a sample of 1000 CBD products available online, less than 5% were found to possess cGMP certifications. These certifications demonstrate the company's dedication to adhering to stringent quality control measures throughout the manufacturing process, ensuring consistency, purity, and efficacy.



## Vegan CBD Gummies 25 mg

Vantage Hemp's Vegan CBD Gummies with 25 mg of CBD offer a combination of high-quality ingredients, vegan-friendliness, precise dosing, third-party testing, and delicious taste that makes them an excellent choice for CBD enthusiasts. Backed by certifications and positive customer feedback, these gummies provide a reliable and enjoyable way to incorporate CBD into your wellness routine.



## CBD Roll-on

Vantage Hemp's CBD Roll-on with 425 mg of CBD is an excellent choice for those seeking a convenient and effective way to incorporate CBD into their lives. With its targeted application, high-quality CBD, THC-compliant formulation, and third-party lab testing, this roll-on provides a reliable and travel-friendly option for topical CBD applications.



## CBD Gelcaps 50 mg

Vantage Hemp's CBD Gelcaps with 50 mg of CBD offer a straightforward, taste-free, and travel-friendly option for incorporating CBD into your daily routine. With consistent dosing, third-party lab testing, and a reputable brand behind them, these gelcaps provide a reliable and convenient way to use CBD consistently.





# White Label

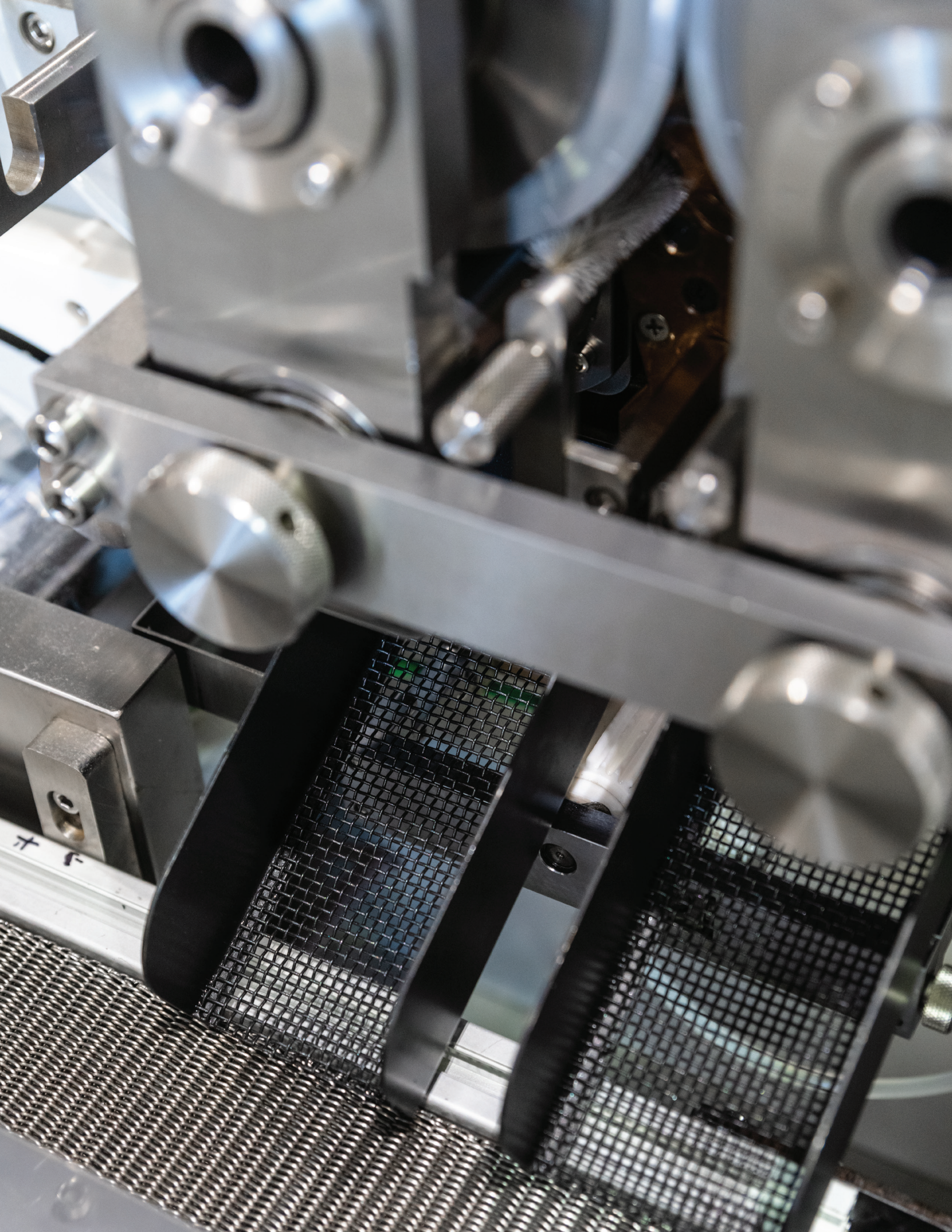
**Get to market quickly with shelf-ready products ready for your branding.**

Vantage Hemp provides top-quality white label and contract manufacturing services. We offer a wide range of safe, tested, and compliant pharmaceutical grade CBD and plant-based wellness products that are ready for retail branding and distribution. Have a custom formulation? Our team of expert formulation scientists can design scalable manufacturing processes for any plant-based wellness products



NAME	DESCRIPTION
CBD Roll-on	425mg CBD isolate and herbal topicals including Arnica, Frankincense, and Menthol
Full Spectrum CBD Tincture	3000mg of broad spectrum distillate and MCT oil in a 30ml bottle
CBD Gummies	Vegan gummies in mixed flavors with 25mg CBD (30 count)
CBD SoftGels	50mg of broad spectrum CBD per capsule (30 count)
Muscimol Tincture	30ml or 60ml of "Calm" muscimol tincture







# Contract Manufacturing

Vantage Hemp has successfully patented scalable, plant-based API extraction and formulation alongside some of the most innovative science-based wellness companies and drug developers.

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# Amanita Muscaria – Muscimol

This mushroom contains muscimol, a psychoactive compound. To extract APIs, the mushrooms can be dried and then subjected to an ethanol or water extraction. The mixture is filtered and evaporated, leaving behind the desired compounds. It's essential to be cautious with Amanita Muscaria due to its toxic compounds and potential hallucinogenic effects.

We are very proud to work closely with innovative and emerging brands like Psyched Wellness. Together with the brilliant scientists at Psyched, our quality and operations teams were able to build a scalable extraction and manufacturing process for their groundbreaking product “Calm”. This amazing plant-based wellness product is made from the rare Amanita Muscaria extract muscimol.



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# Tumeric – Curcumin

Derived from the turmeric plant, curcumin is well known for its anti-inflammatory and antioxidant properties. To extract curcumin, the roots (rhizomes) of the turmeric plant are cleaned, dried, and ground into a fine powder. Solvents like ethanol or methanol are then used to extract curcumin from this powder. The solvent is evaporated, leaving behind a concentrated curcumin extract. This extract can then be further purified or modified based on the desired application.

Dr. Fossum received her D.V.M. degree in 1982 from Washington State University, completed a surgical residency and Master of Science degree in 1986 from Ohio State University, and received a Ph.D. in Veterinary Immunology from Texas A&M University in 1992. She received Board Certification in Veterinary Surgery in 1987.

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# Oleander – Oleandrin

Oleander contains beneficial cardiac glycosides, but it's also highly toxic if consumed improperly. To extract these compounds, dried oleander leaves can undergo solvent extraction, where solvents like Supercritical CO<sub>2</sub>, methanol, and ethanol are used to dissolve the desired compounds. Afterward, the solvent is evaporated, leaving behind the purified glycosides. It's vital that the extraction is done meticulously to ensure only the desired amount of compounds is extracted, minimizing toxicity risks.





# VANTAGE HEMP

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