

MOUNTAIN FLOWER BOTANICALS DISTILLATE



Every good product starts with great raw material. Our distillate starts with our own high-CBD hemp strain, Colorado Queen, bred by our owner and grown right here on pristine mountain farm land on our 66 acres lying at 6000 feet above sea level outside Hotchkiss, Colorado. It is grown with pure, direct-from-the-mountains irrigation water, using only organic nutrients, microbial soil enhancements and, only if necessary (twice in the past 5 years), careful and judicious application of only organic pesticides and/or herbicides. Our isolated location with mountains on 3 sides and desert on the fourth means few insects, fungi and other pests make it over natural barriers to infest our crops; this is why the North Fork Valley is known statewide for high-quality, farm-to-table organic fruit and vegetable production.

We are now producing hemp in the same pristine environment

We produce THC-compliant (under 0.3% THC) "Broad Spectrum" distillate, THC-free (under 0.03% THC) distillate for bulk sale to natural-product compounders, and formulators of high-quality nutraceuticals and topicals, "Full Spectrum" crude which contains all the THC naturally occurring in the low-THC hemp plant (sold dissolved in carrier oils to under 0.3% THC.)

Distillate provides unparalleled purity and potency for a wide array of products

We extract the phyto-cannabinoids, terpenes and other phytochemicals naturally present in the plant using pure grain alcohol in our newly-constructed, state-inspected, sanitary, fully-licensed GMP kitchen located right here on our farm. The production of our distillate begins by our dousing the freshly-harvested hemp flower in a bath of pure, food-grade grain alcohol, thereby dissolving the cannabinoids, etc. off our biomass and into an aromatic solution called "hemp juice."

Carbon-based impurities like fats and lipids, as well as tiny plant fragments, must then be removed in a process using very cold-temperature filtration called "winterization" to initially refine it for further distillation.

Then, we distill the alcohol away from the plant essences using roto-vap equipment operating at low temperatures to protect delicate terpenes and cannabinoids. This results in a dark-brown, highly-aromatic residual called "Full Spectrum Crude." We will sell this, dissolved in carrier oils or alcohol to under 0.3% THC for shipment, for the production of full-flavor, whole plant, full-entourage finished products. Some customers prefer a more natural product and this is how to produce that.

THC-FREE

We produce THC-compliant (under 0.3% THC) "Broad Spectrum" distillate and THC-free (under 0.03% THC) distillate for bulk sale to natural-product compounders, and formulators of high-quality nutraceuticals and topicals.



ORGANIC

We grow using organic methods with direct-from-the-mountains irrigation water.



AROMATIC

We douse the freshly-harvested hemp flower in a bath of pure, food-grade alcohol to create an aromatic solution called "hemp juice." This is then distilled into crude and distillate.

The final processing step in the production of distillate is called “fractional distillation.” This is a process in which the materials in the crude oil produced by the rotovaps are isolated into separate fractions based on the temperature at which they boil or their volatility: 1) plant terpenes, flavonoids and other highly volatile phytochemicals; 2) THC; 3) the largely-CBD body; 4) the residual which is left behind in the flask and discarded.

The resulting distillate is transparent and a light amber in color, with a color and consistency like honey. It has almost no taste or aroma and is very consistent, solvent-free and fully decarboxylated. (This means that the acidic or raw form of CBD or CBDA that occurs in the raw plant has been cooked into CBD.) The cannabinoid content is also higher (in the range of 80%) than that of crude which is about 55% to 60% CBD.

Our process results in high quality phyto-cannabinoid-rich distillate that contains no pesticides, solvents or heavy metals and has a luminescent, clear, honey-like appearance

Our extract and distillates contain multiple phyto-cannabinoids such as cannabidiol (CBD), CBC, CBN, CBG and up to 100 other naturally-occurring phyto-cannabinoids.

The distillate can be used as-is, or the terpene portion can be added back in for more biologically-active “Full Spectrum” finished products. If terpenes are added back into the distillate this will increase the levels of these aromatic compounds, many of which have specific actions, such as the soporific effect of myrcene (the active ingredient in the hops found in your beer). There certainly are specific health benefits that are attributed to the isolated CBD molecule, but the vast majority of clinical research on cannabis suggests that the synergistic action of key phyto-cannabinoids and terpenes working together is truly what offers the widest range of potential medicinal benefits of cannabis.

There are many other types of natural compounds in our hemp extracts such as amino acids, carbohydrates, omega fatty acids, vitamins (including B1, B2, B6, & D), trace minerals including iron, zinc, calcium, magnesium, & potassium, flavonoids, chlorophyll, and many more. Scientists claim that CBD interacts with the endocannabinoid system, linking with the two main types of cannabinoid receptors. Those receptors being CB1 and CB2, and are found within cells throughout the body. CBD has been said to help bring the body back into a state of homeostasis – a natural state of balance in the body.

The complex biochemical interaction of the matrix of phyto-cannabinoids working synergistically in the body is referred to as the “entourage effect.” Cannabidiol is but one of more than 100 known phyto-cannabinoids that interact with the body’s endocannabinoid system (ECS) to help restore normal balance and physiological homeostasis.

All our products are fully tested and come with third-party Certificates of Analysis from ISO-certified laboratories which attest to their potency and prove they are free of all residual solvents, pesticides, microbes, yeasts and heavy metals. Results from this testing are posted on our website and included with our products.



MEDICINAL

The synergistic action of key photo-cannabinoids and terpenes working together is truly what offers the widest range of potential medicinal benefits of cannabis.



LIKE HONEY

The distillate is transparent and a light amber, with a color and consistency like honey.



BALANCE

CBD has been said to help bring the body back into a state of homeostasis - a natural state of balance in the body.