



CBD OIL

Natural / Purified / Pure

CBD EXTRACT

Raw / Purified / High Terpenes

CBD ISOLATE
CBD CRUMBLE
CBD TERPSOLATE

CBG OIL
CBG EXTRACT



ILESOL

ILESOL's main field of business is full-spectrum phytocannabinoids hemp extract production in various formulations and in isolated high purity form.

Our extracts are premium quality, and we have extensive practical experience in

- Hemp cultivation
- Whole plant processing
- Extraction
- Industrial-scale compounds purification
- Pure cannabinoid isolation





BUSINESS MODEL

OUR MAIN BUSINESS FOCUS IS B2B BULK SALES WITH FLEXIBLE IN-HOUSE SERVICES FOR OUR CLIENTS.

We can standardize extract according to the specific needs of our clients.

OUR GOAL IS TO ESTABLISH CLOSE COOPERATION WITH PARTNERS.

We are committed to manufacturing products formulated according to the needs of our customers.

SERVICES

Are you thinking about starting your own brand of CBD oils or CBD cosmetic products?

- Ilesol can provide your own formulated CBD product with desired CBD concentration and flavor;
 - With us you can expand your CBD product portfolio;
 - We are ready for new innovative forms of product delivery methods.
- ▶ We can provide custom made products with various cannabinoids concentrations.
 - ▶ We offer full analytical support with accredited cannabinoids analytical method in accredited laboratory HRN EN ISO / IEC 17025: 2007, GMP + B10 laboratory testing.
 - ▶ We offer consulting and advice services



OILS



Oils are produced with various extract types of formulations. Extract types differ according to the purification step in the isolate production process. Ilesof's extraction method is supercritical CO2 extraction.

The customer chooses base oils used in formulations.

Our standard stock fulfills product requests for:

- Cold-pressed organic hemp seed oil
- Refined hemp seed oil
- MCT oil

NATURAL OILS

Natural oils are winterized raw CO2 extracts with base oil mixture formulations.

After the 1st stage of winterization (partially removal of waxes from the extract, using ethanol and low temperatures) of raw CO2 extract, most of the waxes are removed. Extract becomes fully liquid and homogeneous.

Moreover, the liquid extract is easily mixed with oils and allows us to achieve high CBD concentrations, and maintain the fluidity of the product.

The wax removal process used in Natural oil formulations distinguishes us, in quality, from the majority of the market.

Natural oils contain chlorophyll, and so they are mildly bitter in taste and dark green in color.

The product is non-decarboxylated, and it contains neutral and acid forms of CBD (CBD and CBDA).



Refined HS oil base

- Natural oils can be decarboxylated according to the customer request;
- Natural hemp terpenes can be added according to the customer request;
- Natural oil is a full-spectrum product;

PURIFIED OILS

Purified oils are formulations with distilled extract and base oil. The distilled extract is purified winterized raw CO2 extract in several stages of molecular distillation. The winterized raw extract is decarboxylated before the distillation. The distillation process removes different coextracted impurities from the extract (e.g. residual plant lipids, fine waxes, and chlorophyll). After the distillation process, the extract is winterized at extremely low temperature.

Purified oils have strong extract taste. The distillate has a slightly bitter taste, it's red and has very high concentrations of CBD (or CBG), and at room temperature, it will start to crystallize.

- Terpenes removed from the extract during the distillation process can be added back to the formulations according to the customer request;



MCT oil base

- Natural hemp terpenes can be added to the products according to the customer request;
- The purified oil is a full-spectrum product;

PURE OILS

Pure oils are formulations with CBD isolate or CBD crumble and base oil. Pure oils do not contain THC.

Pure oils are relatively neutral in taste, with dominant taste and color of base oil.

CBD isolate and CBD crumble are light gold in color, so when formulated with transparent oil (e.g. MCT), the formulation will be light gold.

- Natural hemp terpenes can be added to the product according to the customer request;
- Hemp terpene blends can be added to the products according to the customer request;
- Aromas (e.g. Chocolate, Mentha, etc.) can be added according to the customer request;



Hemp Seed oil base

EXTRACTS

Extracts from our product list are used as intermediates in final formulation production.

Total THC ($\text{THC} + 0,877 \times \text{THCA}$) concentration in all extracts is under 0,2%. Color and taste vary with steps of purification.





PURIFIED EXTRACT

The purified extract is the product obtained in the distillation process. The purified extract is not a distillate; it is a formulation of various distillation fractions.

The product has a high concentration of natural hemp terpenes and contains fine waxes. It is suitable for cosmetic formulations and oil formulations.

CBD concentration in the product is standardized in range 65%-70%. THC concentration is not higher than 0,08%.

Other minor concentrations of cannabinoids, like CBG and CBN, are also present in the extracts.

The product is full-spectrum, but the ratio between CBD and other Cannabinoids is considerable.

Purified Extract is red and has an intense hemp fragrance. At room temperature, it will start to crystallize.



Raw CBD paste

RAW CBD PASTE

Raw CBD paste is a product with CBD (CBD + CBDA) content in range 10 % - 50 % and under 0,2 % in total THC.

The extract is non-decarboxylated and contains chlorophyll and waxes. Raw CBD paste is dark green in color and has an intensely bitter taste.

RAW CBG PASTE

Raw CBG extracts is a product with CBG (CBG + CBGA) content in range 5%-25% and under 0,2% THC.

CBG to CBD ratio in extracts can be standardized according to customer specifications. Waxes can be removed from the extract in the winterization process.

Raw CBG paste is dark green in color and has an intensely bitter taste.



Raw CBG paste

HIGH TERPENES CBD EXTRACT

This product is a terpenoid fraction from the distillation process.

It is used as a terpene additive to other products we are manufacturing. In this fraction light plant lipids and seed-oil residues are also present.

CBD concentration in the product is in a range of 15 % - 50 %. THC concentration is under 0,2%.

The product is in an oily form (none of the oils is extra added to the product).

The color of the extract is variable, usually is light gold to light green, sometimes with mild red pigment.

High Terpenes CBD extract is mildly bitter.



High terpenes CBD extract

ISOLATED CANNABINOIDS

Isolates cannabinoids are used as a final formulation production intermediate. THC is undetectable.

All isolated cannabinoids are produced in the chromatography purification process.





Crumble

CRUMBLE

Crumble is a chromatography product with CBD standardized concentration in the range of 95%-99%.

Crumble contains traces of CBG, CBDV, and CBN. The product is in crystal form and light gold in color. The crystal shape is irregular.

TERPSOLATE

Terpsolate is a crumble formulation with purified terpene fraction.

The product is in crystal form and light gold in color with up to 5 % terpenes concentration. CBD concentration is standardised in range 90 % - 95 %.

The product has an intense hemp taste and odor.



Terpsolate

ISOLATED CANNABIDIOL (CBD)

The purity of isolated CBD is in range >99%.

The product can be delivered in powder or fine crystal form. The powder form is white, and the crystal form is white to light gold. The purity of >99,5% or more can be provided upon request.



Isolated cannabidiol



E LIQUID BASE

E-Liquid base is a formulation of pure CBD isolate and Propylene glycol.

This product is usually used for the production of end consumer PG/VG formulations.

Formulations for end consumer market (e.g. PG/VG, terpenes blends, added flavors) are produced according to the specification of customer.



WHY ILESOL?

- Full traceability and guarantee of raw material origin
- Production according to the highest industrial standards
- Proven quality
- Analytical support in 3rd party accredited laboratory with accredited analytical methods
- Knowledge of cutting-edge extraction and purification technologies
- Our products contain a full spectrum of naturally occurring cannabinoids and terpenes.



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