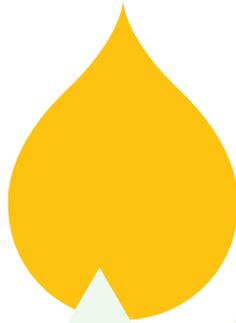


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PÓBELTSCH **GLE**



GROWING
LEARNING
EXTRACTING

GROWING. LEARNING. EXTRACTING.

Póbeltsch-Gle is an R&D company specialized in development of cost-effective, scalable, sustainable and environmentally conscious systems for growing, processing and extracting hemp. We have technological solutions for every step of the production cycle - from seed to pharmaceutical grade extracts, pure cannabinoids and end-client products.

“Green chemistry is not just a mere catch phrase: it is the key to the survival of mankind”

- Professor Ryoji Noyori, Nobel Laureate

Póbeltsch-Gle has employed the green chemistry philosophy - our extract production solutions reduce chemical related impact on human health and the environment by the use of alternative and environmentally friendly processes. We firmly believe that this is the only way for sustainable hemp extract production. Our lean extraction and resin refining systems use only GRAS (Class III) solvents that are recycled, leaving no residual solvents in the final product, while lowering production cost.

We have developed and optimized scalable solutions for cost-effective production of pure CBD crystals as well as whole hemp CBD-rich extracts that preserve the full compound matrix naturally found in the plant.





iQ - intelligent Quality

Quality starts at seed. A high-quality starting material is an essential prerequisite for high-quality product. This is why we employ our iQ quality control system, applying the principles of Good Agricultural and Collection Practices as well as Good Manufacturing Practices. We proactively monitor quality at every key stage and critical procedure, starting from agriculture until delivery of final product, documenting and analysing all quality control data. We know this is the only reliable basis on which sustainable quality manufacturing can be established. We also use a third-party quality control of raw material as well as final products by SGS Laboratories' comprehensive testing.

GACP (Good Agricultural and Collection Practices) measures

The very first requirement of our IQ control system is herbal supplier's adherence to GACP involving the following measures:

- + area selection
- + control of harvesting period and harvesting method, curing and storage conditions
- + botanical identification of raw material
- + quarantine of the biomass under monitored conditions
- + microbiological analysis of 6 classes of bacteria, molds and yeast
- + chemical analysis and control of contaminants such as over 400 pesticides, aflatoxins and heavy metals

GMP (Good Manufacturing Practices) measures

Herbal material enters the extraction facility only after conformance to all **GACP** measures. At this point we apply **GMP, HACCP, ISO 22000** and **ISO 9001**, complementing them with our own high standards of green chemistry extraction, starting from

- + grinding
- + choosing extraction parameters including:
 - solvent type (only Class III)
 - extraction conditions
- + concentration
- + purification
- + drying
- + packaging and labeling



(-)-trans-Cannabidiol

isolate (white crystals)

INN:	Cannabidiolum
Purity:	over 99% CBD
THC:	absent
THCa:	absent
Product description:	Cannabis sativa L. derivative
CAS Number:	13956-29-1
IUPAC Name:	2-[(1R,6R)-3-methyl-6-prop-1-en-2-yl-1-cyclohex-2-enyl]-5-pentylbenzene-1,3-diol
CN Code:	2907 29 00 Phenols; Phenol-Alcohols
Certifications:	Good Manufacturing Practices (GMP)
Impurities:	moisture ≤ 0.5 %
Usage:	Industrial ingredient. Cosmetical raw material.
Solubility:	alcohols, alkanes, aromatic hydrocarbon, chlorinated solvents, polar aprotic solvents
Packaging:	HDPE, aluminum, glass container or as specified by customer
Shelf life:	24 months from date of production in cool and dark place.
MOQ:	10g

Cannabis sativa flower extract

THC-free, CBD 30%

oil (dark amber)

Content:	30% CBD standardized, decarboxylated Terpenes (up to 1%) Other naturally occurring constituents
THC:	absent
THCa:	absent
Product description:	Cannabis sativa L. derivative, CBD-rich extract, liquifies at ~50°C
CAS Number:	89958-21-4
CN Code:	1302 19 70 Vegetable saps and extracts-Other-Other
Certifications:	Good Manufacturing Practices (GMP)
Impurities:	No impurities. No solvent residue.
Usage:	Food, cosmetical and food supplement ingredient. Flavoring preparation - EC/1334/2008, Art. 3.2 (d)
Solubility:	vegetable oils, alcohols, emulsifiable with water
Packaging:	HDPE, aluminum, glass container or as specified by customer
Shelf life:	24 months from date of production in cool and dark place.
MOQ:	200g