

FEPTTEST GMP LABORATORY

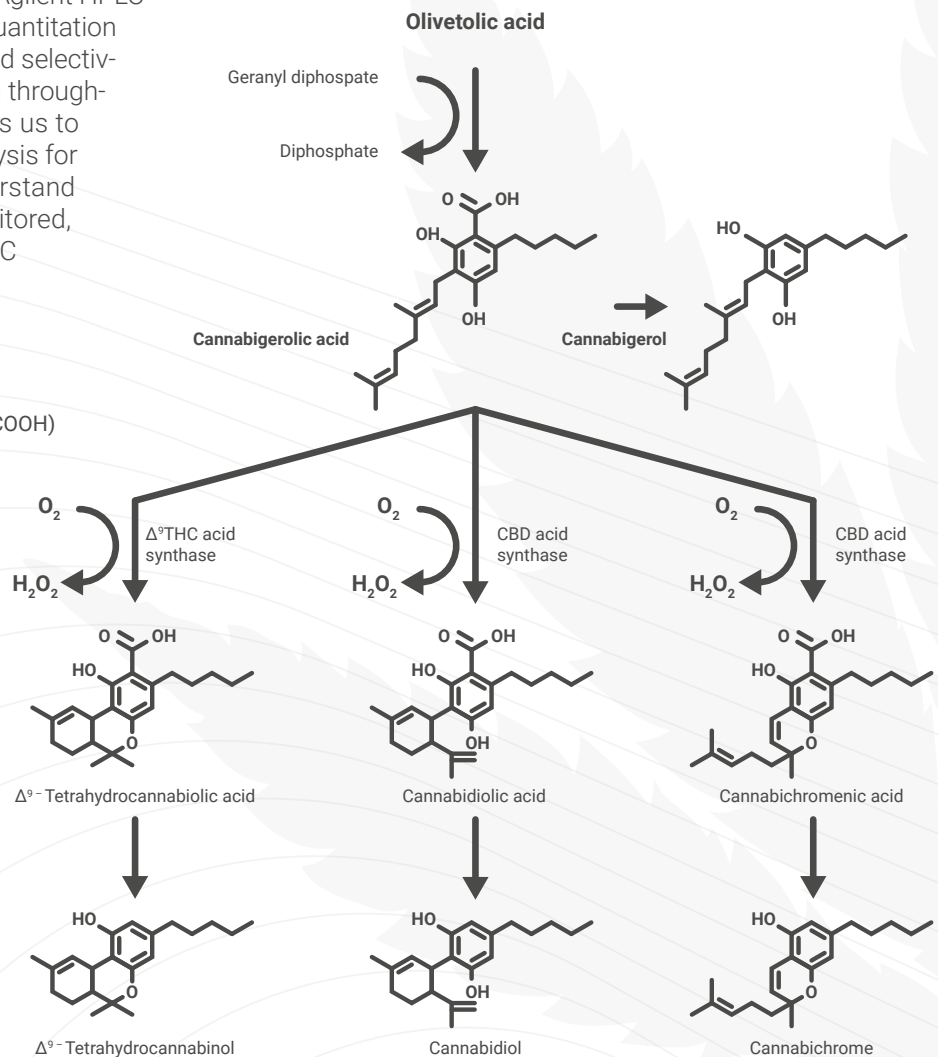
As the Hungarian market leader, Kromat Group has an over 20 years of experience in the fields of chemical analysis, molecular biology and pathology services. Our **FEPTtest service laboratory** was launched in 2019, where we perform food, environmental and pharmaceutical industry tests under **GMP certification**. The main profile of our laboratory is the analytical testing and release of medicinal drugs developed and placed on the market based on accepted and approved procedures in the pharmaceutical industry.

DETERMINATION OF IMPURITIES AND CANNABINOIDS FROM CBD PRODUCTS

Both the increasing areas of cannabis application and legalization of medical cannabis, established the need for robust and reliable analytical testing to ensure consumer safety. It is necessary to test the presence of cannabinoids, terpenes and flavonoids components to determine potency of the product. It is also important to prove compliance with THC regulations to the authorities. In addition, cannabis has several known contaminants represent health risk, including pesticides, heavy metals, residual solvents, microorganisms and mycotoxins.

FEPTtest service laboratory provides professional, fast and reliable results for our partners from the fields of pharmaceutical, food, beauty and tobacco industry.

For the analysis of cannabinoids our laboratory uses the newest, most sensitive Agilent HPLC-QQQ, for the lowest achievable quantitation and detection limits and increased selectivity, that allows us to perform high throughput measurements. This enables us to perform quick and sensitive analysis for the main cannabinoids. To understand why these components are monitored, please check the synthesis of THC (Δ^9 - Tetrahydrocannabinol) and CBD (Cannabidiol) on the right.



- Δ^9 - Tetrahydrocannabinolic acid (THC-COOH)
- Cannabidiolic acid (CBDA)
- Cannabichromenic acid (CBCA)
- Δ^9 - Tetrahydrocannabinol (THC)
- Cannabidiol (CBD)
- Cannabichrome (CBC)



OPEN AIR PLANT GROWING AND BREEDING

IN-HOUSE PLANT GROWING AND BREEDING



- MONITOR PLANT BREEDING
- HARVEST TIME OPTIMIZATION
- QUALITY CONTROL OF SOIL

PLANT PROCESSING RAW MATERIALS:

- Flower
- Seed
- Leaf
- Hurd (shiv)
- Root
- Green microfiber



- QUALITY CONTROL OF PRODUCTS
- COMPLIANCE WITH THC REGULATIONS TO THE AUTHORITIES

PROCESSING STEP

GRINDING STATION (NO SOLVENT)

LIQUID-LIQUID EXTRACTION (ORGANIC SOLVENT- WATER)

SUPER CRITICAL EXTRACTION (CO₂)



- IN-PROCESS CONTROL
- PRODUCTION OPTIMIZATION
- SCREENING DECOMPOSITION PRODUCTS

EXTRACTUM PRODUCT

GROUND PRODUCT



- QUALITY CONTROL OF PRODUCTS
- COMPLIANCE WITH THC REGULATIONS TO THE AUTHORITIES

POST PROCESSING

DEWAXING & FILTRATION

EVAPORATION

DISTILLATION

ISOLATION

PACKAGING



- IN-PROCESS CONTROL
- PRODUCTION OPTIMIZATION
- SCREENING DECOMPOSITION PRODUCTS
- SCREENING CONTAMINANTS FROM PACKAGING MATERIAL
- QUALITY CONTROL OF PRODUCTS
- BATCH RELEASE

COMPLIANCE WITH REGULATIONS

- European Medicines Agency (EMA)
- European Pharmacopoeia (Ph. Eur.)
- Certification
- GMP