

MedPharm's team of scientists and experts is uniquely positioned to perform groundbreaking research in cannabis therapeutics. MedPharm's team includes chemists, a PhD in medicinal and natural products chemistry, compounding pharmacist and formulation development expert. MedPharm can create any dosage form with any desired combination of cannabinoids and, due to the possession of the only Cannabis Research License granted by the State of Colorado, MedPharm can also administer placebos out of its main facility. This means that MedPharm can provide study medications, placebos, and support for Randomized-Controlled Trials (RCTs) and more.

## SERVICES

**CONSULTING on dosage form design**

**FORMULATION of unique medical cannabis preparations – to your specifications**

**PROVIDE currently available DOSAGE FORMS for clinical trials and other studies**

**CONSULTING SERVICES for facility design, cannabis extraction, cannabis extract purification, cannabinoid separation, and formulation**



## MAJOR CAPABILITIES AND EQUIPMENT

All products at MedPharm are formulated to specific dosage forms for drugs to be effectively delivered to patients

Quick turn-around for formulations customized to your specifications for your research studies

In-house analytical laboratory for advanced formulation support, end product quality assurance, and stability studies

Analytical equipment includes: HPLC-DAD-MS, GC-MS and -FID, BSL II Biological Safety Cabinet, incubators, homogenizers, fume hood, centrifuge, and more

Our formulation development teams offer design and optimization of formulations based on research needs for oral tablets, capsules, powders, solutions, suspensions, topical creams and ointments, gels and solutions, and injections for intravenous (IV), intramuscular (IM), or subcutaneous (SC) administration. In addition, various complex drug delivery systems have been developed for transdermal, sublingual and pulmonary deliveries

Formulation development to determine the optimal dosage form, composition and manufacturing route is a fundamental part of MedPharm's product development

High purity cannabis distillate with a total cannabinoid content of 90 - 99 % is the basis for all of our formulations

MedPharm understands that a good formulation must be manufacturable, chemically and physically stable throughout the manufacturing process and product shelf life and bioavailable. In addition, many quality standards and GMP requirements must be met to ensure the efficacy and safety of the finished product. The MedPharm formulation and production process follows these principles.



MedPharm's expertise helps accelerate project and clinical trial timelines and includes pre-formulation, excipient-API compatibility assessment and optimisation, physicochemical testing, formulation screening, lab scale formulation and accelerated stability studies to achieve the desired characteristics.

