



PBE-Expert Inc. provides as well as below services package, from **GMP** Layout design, production equipment, process and clean utilities engineering till validation, and Pre-Approval inspection, we provide also turnkey project and outstanding **Cannabis equipment technologies**:

- 1- **Gi-Grow Technology** for Cannabis Plant Grow, all services integrated.
- 2- **SFE-Process** Technology for **CO2 Supercritical Extraction** which handle and processes till 2 x 100 L of Cannabis, involving dewaxing, selective HPLC purification (THC versus CBD, Terpene) and Clean In Place technologies.
- 3- **Photoclean Bio decontamination** technology to reduce pathogen biological contaminates, reduce **odors** and non-viable particles with 99.995% of efficiency.
- 4- **Water Treatment** for watering of Cannabis plants and purified waters for compounding and clean in place (Eurowater, WTT, FABTECH).
- 5- **Cleanrooms Panels, HVAC, Dehumidifier** (FABTECH) ... More details should be transferred for the equipment brochures package upon request.
- 6- **Packaging** machines for tablets, softgel, oils, creams & ointment... (FABTECH, PAX, NJM, ...) ... More details should be transferred for the equipment brochures package upon request.

Our team will be delighted to meet your PL, facility project and engineering managers. Please revert to me with spot times to schedule a meeting.

I am a **Heath Canada & MAPAQ Expert** working with **PBE-Expert Inc.**, It has the knowledge and skilled resources to support **CANNABIS** manufacturers from the **CANNABIS** growth, CBD & THC Extraction & Purification (**Supercritical CO2 Technology and equipment Supply**) till **cGMP** pharmaceutical manufacturing forms, including **cGMP** Process Engineering and Hygienic Cleanrooms design, validation are a sample of our core business to ensure **cGMP** compliance.

PBE-Expert Inc. involves services of the following **CANNABIS** experts:

- 1- **Cannabis Extraction Technologies** & Assembly of the complete files for a Cannabis facility: see summary of M. Paul Laurent's CV in the Cannabis sector. One of the rare EXPERTS in **Cannabis** in the province of Quebec.
- 2- **Process & cleanrooms engineering (cGMP)**: Aziz Shraibi, Health Canada & MAPAQ expert, with more than 130 completed projects.
- 3- **Transfer of technology, formulation & Product Development**: Marie-Ève Lestage & François Goupil.
- 4- **Cannabis Producer Registration**: Professor Leila is a **Cannabis** researcher at a BC University. She is an EXPERT in **Cannabis** Registration and is involved in multiple PL projects with Health Canada.

PBE-Expert Inc. is actively involved in **CANNABIS**, **cGMP Pharmaceutical**, Biotechnology, Nutraceutical & Foods Consulting projects in Canada, USA and MENA area: <https://pbe-expert.com/en/sectors/>.

PBE-Expert Inc. company provides **CANNABIS Process & Facility Engineering, Layout Design, Validation & CSV, Design Review, PM, PAI, cGMP Compliance Audit, QA, Maintenance, CANNABIS Producers LICENSES**, Calibration, Site Certification, to meet c-GMP FDA, EMA, Health Canada.

Health Canada & MAPAQ Expert, having more than **25** years of experience in process engineering with **SNC Lavalin Pharma, Validapro, ONA Group**, with **+130 projects** meeting the cGMP of FDA, EMA & Health Canada and the standards, ASME-BPE, ISO-14644, ISO13485, FDA-820 with the most recent completed projects are the following: **Endoceutics Canada project** (Vaginal ovules, 2017), **GreenCross/Bosch Canada** (Blood Plasma Fractioning, 2016-2017): <https://pbe-expert.com/en/ourcustomers/>.



We provide the following **SERVICES**:

1. **cGMP Process Engineering:** (URS for Process Equipment, Clean Utilities, **GMP LAYOUTs**, Facility Engineering).
2. **Bio-decontamination & Cannabis Odor** removal technologies suppliers.
3. **Commissioning**, FAT, SAT, **Qualification** IQ, OQ.
4. **Processes & Cleaning Validation**, according to US-FDA 2011 & EMA 2015 guidelines.
5. **cGMP Layout Compliance Design Review & Audit**, Pre-Approval Inspection (**PAI**).
6. **cGMP Site Compliance & Certification** according to the EMA, US-FDA, Health Canada.
7. **GAP Assessment & Analysis:** XP / ATEX.

Please refer to our [brochure](#).

Should you have any questions, please do not hesitate to communicate with me.
Thanks in advance and best regards,

Aziz « As Is ! », PhD, PEng.

cGMP Compliance, Process & Layout Engineering

CANNABIS, HEALTH CANADA & MAPAQ EXPERT

CANNABIS GPP & GMP Process Building Engineering

HVAC, Cleanrooms, Supercritical CO2 Extraction, Validation

C.+1. 514-616-2692 | O.+1.450-600-0790 x 253

<http://goo.gl/5MYTCp> | <http://goo.gl/5XH2hK>

