

PHARMACEUTICAL
Cannabis
INDUSTRIAL HEMP

THE COMPLETE PROPOSAL



**Cultivation, Process, Quality Control,
Research & Development**

THE COMPLETE PROPOSAL

Pharmaceutical Cannabis & Industrial Hemp

Cultivation, Process, Quality Control, Research & Development

WE OFFER

Officially cooperating with **40 internationally recognized manufacturers**, with experience and continuous innovation in the field of scientific equipment as from 1984 in Greece, Cyprus and neighbor countries.

- 1 **Study & Proposal of Investment** (License, Construction, Equipment)
- 2 **Design Qualification, Supply and Installation of Technologically Advanced & Efficient Equipment** (Certified GMP, GACP, ISO, ATEX-Explosion Proof)
- 3 **Full Technical & Scientific After-Sales Support and Special Training Courses**
- 4 **Research & Development services for Final Products** (Pharmaceuticals, Edibles, Isolates etc.)
- 5 **Quality Assurance Services, Product Analysis, Quality Control, Interlaboratory Comparison Assistance** (SOP, Greek FDA, GMP, GLP, ISO17025, etc.)

OUR KNOW-HOW

is based on the experienced scientific team of **HELLAMCO®**, supported by top-level University professors & researchers from Greece and abroad, who are at your disposal.

The **several thousands of instruments** installed by **HELLAMCO®** in Universities, R&D, as well as Q/C bodies and entities, in the Industry (Pharmaceuticals, Cosmetics, Natural Products, Food, Materials, etc.), with complete support services coverage, assure the success of your investment. Please do not hesitate to contact us for the detailed consideration of your expectations and the determination of the most profitable proposal.

FINAL CANNABIS PRODUCTS

Cultivation & Harvest Maximization



- **Chambers-Rooms for cultivation and drying**
fully adjustable conditions for temperature, humidity, CO₂, lighting etc., achieving up to 5-7 crops per year.
- **Program, Monitor & Control Systems**
for all cultivation parameters.
- **Special Hybrid Greenhouses fully controlled**
with Efficient Energy utilization (Geothermal, Solar, Wind, etc.)
- **LED lights, Light plans**

CONVIRON®

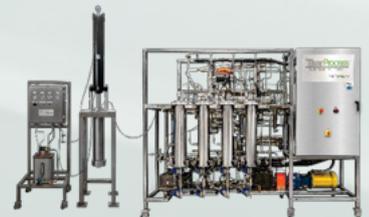
ARGUS
CONTROLS

CERES
GREENHOUSE SOLUTIONS

Extraction Isolation of Cannabinoids Mixture (CBx, THCx)



- **Supercritical Fluid Extractions (SFE) Systems**
capacity up to 15 tons of dry product per day.
- **Ethanol Extraction**
- **Rotary Evaporation**
- **Extraction-Isolation of Solvents**



TharProcess™
Sustainable • Trust

DEVEX
Verfahrenstechnik GmbH

Separation & Purification of Cannabinoids



- **Short Path Distillation / Molecular Distillation**
- **Supercritical Fluid Chromatography (SFC)**

STEROGLASS®

TharProcess™
Sustainable • Trust

VTA

Additional Elaboration & Quality Control (QC)



- **High Performance Thin Layer Chromatography HPTLC**
- **Heavy Metals Detection**
AAS, ICP-OES, ICP-TOF/MS
- **Particle & Droplet Sizing Systems**
- **Chromatography Instruments**
HPLC, UPLC, UHPLC, GPC, SFC
- **Mass Spectrometry Instruments**
MS, MS-MS, TOF, QTOF, IM/MS, GC/MSMS



CAMMAG[®]

**Malvern
Panalytical**
a spectris company

Waters[™]

GBC

General Equipment



The complete series of general laboratory equipment, will provide the design, construction, installation of a complete Quality Control (QC) or Research & Development (R&D) Laboratory, including all necessary infrastructure:

- **Photosynthesis, Light & Leaf Area Meters**
- **Plant Physiology Equipment**
- **Laboratory Scales & Humidity Measuring Devices**
- **Automatic Dosing Systems of High Accuracy**
- **Extraction and Filtration of Cannabinoids and Terpenes**
for Sample Preparation to detect Trace Metals and Pesticides
- **Medical Graded Trimmers**
for Wet or Dry material (GMP/FDA)
- **Homogenizers, Mixers, Shakers, Stirrers**
- **IRMS (Authenticity, Seed Origin Identification)**

LI-COR

METTLER

TOLEDO

CEM

**PRO
Scientific**

elementar
EXCELLENCE IN ELEMENTS

MOBIUS

WE PROVIDE

THE MOST COMPLETE LINE OF EQUIPMENT

for the total process of the final Cannabis products
for the fastest payback of the investment.

Cultivation & Harvest Maximization

Extraction Isolation of Cannabinoids Mixture
(CBx, THCx)

Separation and Purification of Cannabinoids

Additional Elaboration & Quality Control (QC)

General Equipment

SINCE 1984
4th
DECADE
OF EXELENCE
Thank you
for your loyalty

OUR GOAL

is to develop the infrastructure to produce
INNOVATIVE PRODUCTS (*pharmaceuticals,*
cosmetics, edibles, drinks, vapes etc.) with
HIGHEST QUALITY STANDARDS to reach
your target markets.

OUR SCIENCE, YOUR SUCCESS

SINCE 1984
4th
**DECADE
OF EXELENCE**

Thank you
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AUTHORIZED DISTRIBUTOR

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ARGUS
CONTROLS

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CEM

DEVEX
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EXCELLENCE IN ELEMENTS

MOBIUS

VALOYA

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TharProcess®
Sustainable + Trust


HELLAMCO®
SCIENTIFIC EQUIPMENT

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