igwLAB®

extraktLAB®

Manufacturing Execution System
for the Botanical Hemp Industry

DESCRIPTION

igwLAB is a specialized cloud-based software platform designed to track and document the transformation of raw materials to finished goods.

The software provides the following functions:
- Manufacturing Execution
- Quality Document Delivery, Control, and Data
- Laboratory Information
- Batch Records

igwLAB provides information to help manufacturing decision makers understand how current conditions on the plant floor can be optimized to improve production output. It works in real time to enable the control of multiple elements of the production process including inputs, personnel, machines and support services.

The architecture of igwLAB is built upon the foundation of FDA CFR Title 21 - the Food and Drug Administration portion of the Code of Federal Regulations governing food and drugs within the United States. It creates the "batch" record, capturing the data, processes, and outcomes of the manufacturing process. This is especially important in highly-regulated markets, such as food and beverage or pharmaceutical, where documentation and proof of processes, events and actions are required. igwLAB makes the chain of custody tracking and data a breeze.

FEATURES

- **GMP-compliant MES with lot and batch control**
- **Cloud software platform with secure WIFI connectivity**
- **Yield optimization control**
- **Documentation and data repository**
- **Customer and regulatory reporting**
- **Supports multiple locations**

13 PROCESS CONTROL MODULES:

- Receiving
- Bucking
- Milling
- Sampling
- Extraction
- Decarboxylation
- Dewaxing
- Isolate
- Distillation
- Formulation
- Filling and Packaging
- Shipping
- Analytical

Comprehensive Process Control:

igwLAB provides comprehensive process control throughout the entire flow of processing and production.

The platform captures and tracks all material characteristics, process yields, and quality control data. It also serves as a repository for all documentation including standard operating procedures, equipment records, personnel records, and alerts.

Software Subscription:

igwLAB is offered as a subscription-based software seat license for each authorized user. All modules are included with each seat license. User authentication controls administrator access and user access to prescribed modules, functions and data inputs.
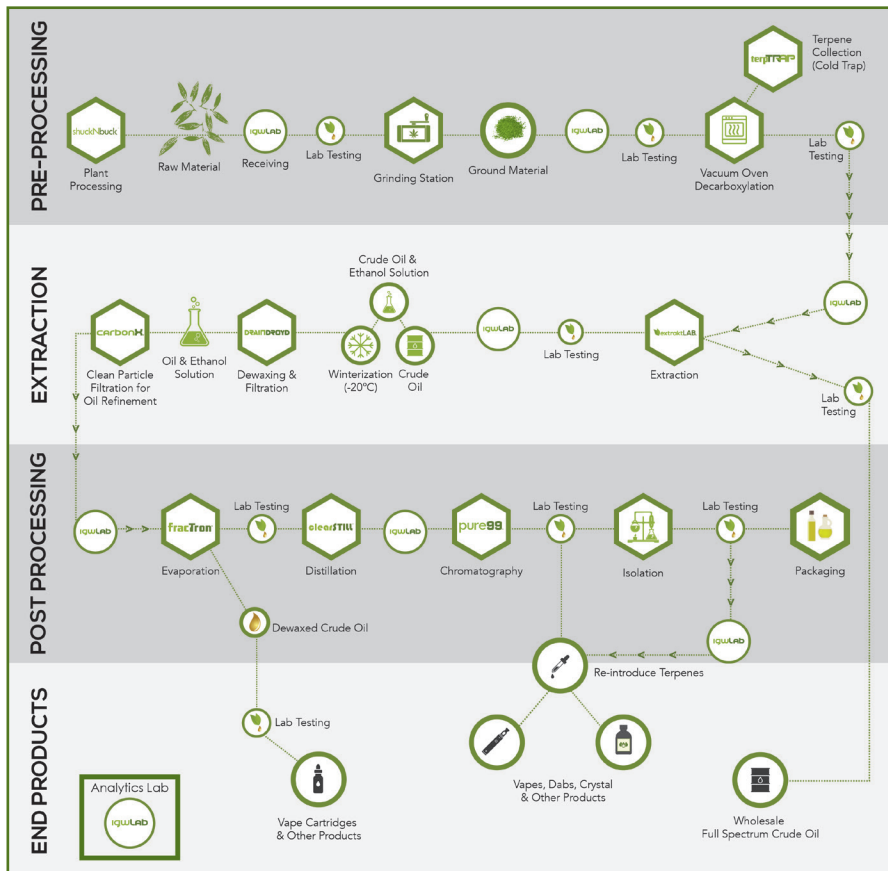
Workstation Hardware:

igwLAB workstations are located adjacent to key production functions to capture data and control processes. The number of workstations for a facility are determined by production volume to support efficient workflows.

Each workstation includes the following hardware:
- Stainless steel workbench
- Computer
- Display – with adjustable mounting arm
- Barcode scanner
- Barcode printer
- Scale reader – with adjustable mounting arm
- Scale – configured for location container size

Data visualization for process monitoring of multiple locations.

Interoperability:

igwLAB comes with application programming interface (API) documentation allowing syncing of floor data with accounting and ERP/MRP systems. Custom API programming services are available from extraktLAB.

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