

# David Tomy

Experienced Cannabis scientist with expertise in manufacturing procedures, sample analysis and purification methodologies

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## EXPERIENCE

### Essentia Scientific, Berkeley — *Extraction Technician*

FEB 2023 - PRESENT

- Extraction of CBDa & THCa isolates(98-99%) purity from Crude hemp Biomass using proprietary extraction methods .
- Perform routine moisture analysis on samples to test for dryness
- Perform short path distillation on isolates to strip off any contaminants
- Operation of transfer pumps for fluid transfer
- Execution of Unit operations involving drying, mixing, distillation, filtration, grinding, crushing and crystallization
- Perform trouble shoot on pumps, dehumidifiers

### CNP operating, Centennial, Colorado — *Production Technician*

APRIL 2021 - FEB 2022

- Got experience in various chemical manufacturing methods of various cannabinoids like CBG, CBN, delta 8 , delta 10 THC in a chemical reactor setting.
- Learned to operate wiped film distillation unit, VTA distillation units, short path distillation , Roto-evaporators, dryers,
- Got experience in cannabinoid batch crystallization, cannabinoid washing, roto-evaporating and purification steps down the lane

### Livwell Enlightened health, Denver, Colorado- *Extraction Technician*

FEB 2020- APRIL 2021

- Learned how to operate two closed loop hydrocarbon extraction machines 1300 and Mini Mep and got certified by machine manufacturers ETS.
- Also, operated Short path distillation column and various cascade ovens for processing extracts.
- Got familiar with batch processes to extract various cannabis

## SKILLS

Extraction  
Quality Analysis  
Moisture Analysis  
Distillation  
Preventative Maintenance  
Maintenance  
Testing  
Unit operations  
Time Management  
Safety  
Problem Solving  
Hydrocarbon extraction  
Management

products by following company Sop guidelines

- Got experience working on machines like Centrifuges, extractors, cascade ovens, Lisa ovens, roto-evaporators, Freeze dryers, Cryo-Cure, Vacuum pumps..
- Got solid understanding of the adsorbent cannabinoid chemistry used for color remediation of cannabis extracts.
- Got hands-on experience understanding the winterization process to remove fats, lipids and volatile terpene fractions out of the distillate product and reintroducing the Volatile terpene fractions back into the distillate (8-10%).

## EDUCATION

### **Colorado State University, Fort Collins, Colorado —**

#### *ME Chemical Engineering*

AUG 2015 - DEC 2017

### **University of Calicut, Kerala, India —**

#### B'Tech Chemical Engineering

JUNE 2010 - MAY 2014