

Seth Martin, M.S.

Medical Cannabis Science and Business

Professional Summary

I am a personable experienced cannabinoid scientist and senior director of operations with a demonstrated diverse history of working in analytical chemistry, formulation chemistry, organic chemistry, compliance, indoor cultivation, patient consulting, and business management. Skilled in leadership, critical thinking, lab technique, Microsoft Excel, supply chain (SAP), and industry compliance systems (MJ Freeway and METRC). Strong scientific background with a Bachelor of Science (B.S.) focused in Biology from Monmouth University and a Master of Science (M.S.) focused on Medical Cannabis Science and Business from Thomas Jefferson University.

Skill Highlights

Critical thinking, planning, research and development, visually keen, great with Microsoft Excel, METRC, MJ Freeway, optimist, highly adaptable to rapidly changing environments, experience with several POS systems, passion to educate, able to follow instructions well, lab and greenhouse experience

Work Experience

Cannabis/Hemp Scientific Analytical Testing Expert (Nov 2025 – Present)

Cannaspire– Phoenixville, PA

Analytical Chemistry, Pharmacology, Extraction & Formulation, Cultivation & Regulatory Compliance Expert Witness

Senior Director of Operations (May 2025 – Present) (Full-Time)

River Driver Cannabis Co– Brunswick, ME

Responsibilities include supply chain management, compliance systems management, new product development, budgeting, and production management.

Owner/Consultant (June 2024– Present) (Hybrid)

SMart Extraction and Formulation – Haverford, PA

Help clients with production, extraction, formulation, and analytical needs within the nutraceutical space. This includes beverage formulations, COA review, compliance review, product development, and product remediation and/ or correction assistance.

Senior Chemist (June 2024 – January 2025) (Full-Time)

SafeTiva Labs– Westfield, MA

Ran analytical equipment (HPLC, LC-MS, GC-MS, ICP-MS) for cannabis flower and products. Additionally, conducted data review, trained staff to operate instrumentation, and trained staff to perform sample preparation. This position provided the opportunity to refine my skills in analytics, to provide a holistic approach to cannabis production.

National Scientific Director (September 2023 – May 2024) (Hybrid Full-Time)

Laboratory Operations Manager (February 2023 – September 2023) (On-site Full-Time)

Extraction Lab Manager (July 2022 – February 2023) (On-site Full-Time)

July 2022 – June 2024 (Hybrid Full-time)

Fine Fettle Dispensary – West Tisbury, MA

Worked my way up from Extraction Manager to National Scientific Director. My responsibilities included: General Manager of Martha's Vineyard production facility, on-site analyst for cannabis products (potency, microbial, and mycotoxin testing) to be sold on the Vineyard, producing cannabis craft cannabis oils, creating formulations (nano emulsion), analytical testing research and development, microbial testing, COA authoring for sellable cannabis products on Martha's Vineyard, SOP authoring for analytical and production processes for all facilities (including Massachusetts, Connecticut, Rhode Island, and Georgia), METRC documentation, as well as product research and development for all facilities (including Massachusetts, Connecticut, Rhode Island, and Georgia). The analytical equipment I operate are a GC (TRACE 1300 Thermofisher) and a HPLC (Vanquish Thermofisher).

Lab Manager (Assistant Manufacturing Manager) - Jan 2022 – Apr 2022 (Full-time)

Trulieve (Modern Flower / Avenue)- Reading, PA

Responsibilities included leading the manufacturing team to create quality cannabis products, promote a positive work environment for all manufacturing staff, assist in developing uniform practices between other Trulieve manufacturing facilities in PA, writing SOPs for all extraction in addition to formulation practices, and researched new/ improve methods currently used to produce cannabis-based products.

Extraction Chemist - Jan 2021 – Dec 2021 (Full-time)

Jushi Inc (Nira +/- The Lab / The Bank)- Scranton, PA

Responsibilities included supercritical (oils) and subcritical (terpenes) CO2 extraction of plant matter, winterization, rotary evaporator collection of ethanol, distillation of cannabis oils, appropriate documentation in MJ freeway, run qPCR analysis on plant material for microbes (total yeast, mold, and bacteria), and assist with HPLC analysis of cannabis and extraction products. The CO2 extraction machine I have experience with is the CDM H.20-2X-2F by IES (Isolate Extraction Systems), the PCR machine is an Agilent AriaMx , and the HPLC is an Agilent 1100.

Extraction Chemist - February 2020 – July 2020

GHT LLC (Summit Concentrates)- Aurora, CO, United States

Responsibilities included extracting cannabis plant material via hydrocarbon extraction, distilling crude products, documentation using METRC seed to sale system, R&D, and data analysis. Products included distillate, liquid live resin, THCa diamonds, wax, shatter, and budder. Extraction machines I have experience with are Extraction Tek Solution's MeP 30 and MC (incredibles) extractor 5lb extraction unit. (Resigned from this position to move back to Pennsylvania and help my immunocompromised parents during the covid 19 pandemic).

Analytical Chemist, Quality Assurance, and Formulation Chemist - August 2019 – January 2020

Elevate CBD and Axcenria Pharmaceuticals- Telford, PA

Responsibilities included running quality control analyses on CBD based products and OTC pharmaceutical products via HPLC and specific gravity measurements, approving CBD products for quality, safety, and integrity by standards of CGMP. I also assisted with developing new methods for formulating nano encapsulated CBD solutions and aided in running HPLC analyses on CBD products which were hemp oil, MCT, phospholipid, and pg/vg based. In addition, I assisted in writing package inserts for CBD products.

Education

Master's in Science: Medical Cannabis Sciences and Business, Dec 2021

Thomas Jefferson University- Philadelphia, PA

Certificate in Graduate Studies: Cannabinoid Medicine, Sep 2021

Thomas Jefferson University- Philadelphia, PA

Certificate in Graduate Studies: Cannabinoid Chemistry and Toxicology, Sept 2020

Thomas Jefferson University- Philadelphia, PA

Certificate of Graduate Studies: Cannabinoid Pharmacology, Sept 2019

Thomas Jefferson University- Philadelphia, PA

Bachelor of Science: Biology, December 2015

Monmouth University- Long Branch, NJ