E4 Bioscience Client Case Study: Kairos Labs

SETTING THE STANDARD IN LABORATORY DESIGN

BACKGROUND

E4 Bioscience was approached by Kairos Labs after completing a successful road mapping project to help design a 9,500 sqft cannabis testing laboratory that would support efficient workflow, future expansion, and meet all regulatory cannabis analytical safety and testing requirements.

APPROACH

E4 Bioscience conducted an in person, on-site review to visualize the space, assess power and water supply, and consider structural limitations. After site assessment, a collaborative and iterative design process was followed to plan for estimated throughput of 160 compliance samples daily each requiring 7 independent analyses.

SOLUTION

A high level of confidence was created by sharing examples of good laboratory design principles E4 Bioscience partners has used in their own laboratories as well as explaining the justification for non-intuitive recommendations. Instrument placement, workflow efficiency and potential cross contamination reduction were considered critical design elements. Final blueprints included independent areas for molecular and traditional microbiological testing, organic extraction, acid extraction, chemical testing, industrial gas storage, administrative offices, conference rooms, bathrooms and changing rooms, walk-in refrigeration, active & residual sample storage, and hazardous waste storage.

"E4 Bioscience was an outstanding laboratory design partner for Kairos Labs. We had heard about other laboratories performing corrosive sample extractions beside highly sensitive testing instruments and having microbial cross-contamination issues. Instrument repair is very costly and hurts cash flow, while cross contamination is a leading cause of client turnover. Having good laboratory design minimizes these issues. As an important side benefit, employees love working in our space since it was designed with their safety and efficiency in mind." – Kairos Labs Co-Founder & COO.

Results
E4 Bioscience designed a 9,500 sqft testing facility in less than 30 days that promoted testing accuracy, employee safety, and workflow efficiency.

E4 Bioscience
The Cannabis Laboratory Experts