

**EAIC Meeting
Fidelity Diagnostics Laboratory Virtual Tour
April 20, 2022**



Fidelity Diagnostics Business Highlights

Founded: by Andre and Melissa Umansky in October 2016.

Laboratory Operations Started: June 2017.

Locations: 1 Laboratory in Missoula; Storage Facilities in Bozeman and Columbia Falls.

Employees: 2017: started with 3 employees; 2022: 35 employees and we anticipate creating 10 more jobs this year with the industry growth.

Community Involvement: We are active in giving back to the community through our FiDi Family program. Item donation drives for organizations such as Animeals and The Poverello Center.

Accreditations and Endorsements: ISO 17025: 2017; Endorsed by the DPHHS Public Health Laboratory.

Proficiency Testing: Consistent pass rate, twice yearly, in accordance with Montana testing rules.

Areas of Service: The entirety of Montana

Sample Intake and Metrc Management

- Samples weights and packages are verified once received at the laboratory.
- Metrc is managed throughout the testing process so we can be as pro-active as possible in resolving Metrc package accuracy and issue resolution.

Moisture, Imaging, Filth and Foreign Matter

- Moisture: 12% moisture limit – anything above this limit produces a conducive environment for mold.
- Imaging: Gives an insight into the quality of their growing conditions from trichome visualization. This image is also reported on the Certificate of Analysis so the consumer can visually identify that the product they have in hand is the product that has been tested.
- Filth and Foreign Matter: Gives consumers confidence that they do not have foreign matter in their product. For example: bugs, seeds, hair, etc. Most foreign matter failures are seeds.

Sample Preparation

- Analytical chemists perform sample preparation using different methodologies for different analytes.
- Samples are prepped in this area prior to instrumental analysis.

Instrumentation Room

Type of Instrumentation	What is Analyzed
Liquid Chromatography	Cannabinoids (Potency)
Gas Chromatography Mass Spectrometry	Residual solvents and Terpenes
Liquid Chromatography Mass Spectrometry	Pesticides

Microbiology Department

- We use qPCR using genetic methods to identify pathogens.
- These pathogens include e. Coli STEC, salmonella and 4 species of toxic aspergillus (mold).

Field Technician Vehicle and Sampling Kit

- Fleet includes 10 vehicles currently. All purchased locally.
- Every field technician is provided their own company vehicle. Vehicles are equipped with GPS monitoring.
- Field Technicians have a sampling kit during sample collection events to ensure the samples are collected in a sterile environment and that a representative sample is collected.