

Role of the CDPHE Laboratory in Retail Marijuana

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COLORADO
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Role for CDPHE laboratory:

C.R.S. Sec. 24-20-112(3) requires "a state agency" to "work with a private advisory group to develop good laboratory practices for the retail marijuana industry."

CDPHE participates on the MED retail marijuana testing facility work group as well as other state workgroups focused on testing requirements.

Contaminant Testing Recommendations:

- Is the contaminant a public health concern for the general population? *E. coli* and molds ubiquitous
- Are the testing requirements reasonable? *Edibles carry different risks.*
- Can labs provide isolates of pathogens to CDPHE for outbreak investigation purposes?

Contaminant Testing Recommendations:

1. Microbials (Bacteria, Molds, Mildew, Fungus, Filth)

Contaminant	Acceptable Limit
Escherichia coli	Negative-None detected
Salmonella species	Negative-None detected
Bile tolerant gram negative bacteria	Max Limit: 10,000 CFU
Aspergillus sp.	Negative-None detected
Mucor sp.	Negative-None detected
Penicillium sp.	Negative-None detected
Thermophilic actinomycetes sp.	Negative-None detected
Aflatoxin	Max limit: 20 ppb
Filth Analysis	

Contaminant Testing Recommendations:

1. Microbials (Bacteria, Fungus)

Contaminant	Acceptable Limit	Product to be tested
Shiga toxin producing Escherichia coli (STEC)	<1 CFU/g	Flower; retail marijuana products; water and food-based concentrates
Salmonella species	<1 CFU/g	
Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger	<1 CFU/g	

Contaminant Testing Recommendations:

Solvents

<u>SUBSTANCE</u>	<u>ACCEPTABLE LIMITS PER GRAM</u>	<u>PRODUCT TO BE TESTED</u>
BUTANES	< 800 PARTS PER MILLION (PPM)	SOLVENT-BASED CONCENTRATES
HEPTANES	< 500 PARTS PER MILLION (PPM)	
BENZENE**	< 1 PARTS PER MILLION (PPM)	
TOLUENE**	< 1 PARTS PER MILLION (PPM)	
HEXANE**	< 10 PARTS PER MILLION (PPM)	
TOTAL XYLENES (M,P, O-XYLENES)**	< 1 PARTS PER MILLION (PPM)	
ANY SOLVENT NOT PERMITTED FOR USE PURSUANT TO RULE R 605.	NONE DETECTED	

** NOTE: THESE SOLVENTS ARE NOT APPROVED FOR USE. DUE TO THEIR POSSIBLE PRESENCE IN THE SOLVENTS APPROVED FOR USE PER RULE R 605, LIMITS HAVE BEEN LISTED HERE ACCORDINGLY.

Certification of Retail Marijuana Testing Facilities (RMTF):



RMTF



Department of Revenue



Colorado Department of Public Health and Environment



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Inspection of RMTF:

- Standards based on national laboratory best practice
- Assess quality of the laboratory testing and all associated processes to ensure the quality of test results produced

- Apr. 4, 2014: CDPHE agrees to serve as inspectors
- Apr. 21: Inspection request and checklist provided to RMTF
- Apr. 24-30: Four RMTF inspected
- May 1: CDOR grants provisional certification for potency testing



Next Steps:

- Inspection of RMTFs for contaminant testing
 - Beta-testing initiated September 2014.
- Provision of clear guidance for requesting inspections and for certification requirements.

