

Bulletin Number: OH_IB_0034	Distribution Date: 3/23/2022	Effective Date:03/28/2022
Contact Point: MMCP	Subject: Guidance on Lab Bate	ch Testing
Reason: MMCP is putting forth guidance on the required revised, standardized Lab Test Batching		

Greetings Metrc Users,

The Medical Marijuana Control Program (MMCP), pursuant to authority in Ohio Revised Code/Ohio Administrative Code 3796, is providing guidance on the use of the Metrc Lab Test Batches. Effective **March 28**, **2022**, licensees will be required to use **revised**, **standardized** Lab Test Batches when submitting medical marijuana for laboratory testing in Metrc.

Ohio Administrative Code 3796 establishes testing analysis requirements and acceptable thresholds. Currently, when submitting medical marijuana for laboratory testing in Metrc, licensees must choose Lab Test Batches by category (pesticide, heavy metal, etc.). The MMCP is reconfiguring Metrc Lab Test Batches to allow licensees to simply select the appropriate stage of production, which will include all required testing for each stage.

Implementation of standardized Lab Test Batches will streamline the process to ensure that all medical marijuana has been submitted to and met the requisite threshold requirements for testing as mandated under Ohio Administrative Code 3796, prior to distribution to patients at dispensaries. Furthermore, this guidance will allow for more efficient business practices for licensees and ensure all requisite testing is completed.

The MMCP will be monitoring Metrc to ensure licensees comply with this guidance. Failure to utilize the appropriate Lab Test Batch may result in retesting, administrative hold, destruction of product, and/or further action by the Department. Should licensees have issues or questions pertaining to this guidance, please contact your MMCP agent.



Available Metrc Lab Test Batches

Licensees shall use the Lab Test Batches for mandated laboratory testing. Lab Test Batches will no longer be organized by category (e.g. pesticide, heavy metal, etc.). Individual tests per Lab Test Batch can be found in the attached **Appendix A** to this guidance.

Lab Test Batch Selection Guide

The following tables are divided into three categories: (1) Plant Material; (2) Marijuana Derived Ingredients; and (3) Manufactured Product, that outline the required Lab Test Batch mandated dependent upon the medical marijuana's form and destination. As such, licensees should refer to this selection guide when adopting this guidance and ensure that they are using the MMCP's standardized Lab Test Batch when inputting the data into Metrc.

When conducting retesting, licensee must choose the category of analyte associated with the particular failure (e.g. if medical marijuana fails for lead, licensee would be required to retest for all heavy metals). All tests associated with a Lab Test Batch must be completed and accurately reported into Metrc.

Plant Material

Metrc Item Categories	Intended Use of Testing	Lab Test Batch
Bulk Flower/Buds	Distribute to dispensary (Retail Sale)	Dispensary Plant Material
Shake/Trim (By Strain)	Distribute to dispensary (Retail Sale)	Dispensary Plant Material
Bulk Flower/Buds	Distribute to processor (Extraction Only)	Processor Plant Material
Shake/Trim (By Strain)	Distribute to processor (Extraction Only)	Processor Plant Material
Shake/Trim	Distribute to processor (Extraction Only)	Processor Plant Material

Marijuana Derived Ingredient

Metrc Item Categories	Solvent Used in Extract	Intended Use of Testing	Lab Test Batch
Bulk Concentrate	Yes	Formulate Other Products	Solvent Based Marijuana Ingredient
Bulk Concentrate	No	Formulate Other Products	Non-Solvent Marijuana Ingredient



Manufactured Product

Metrc Item Categories	Solvent Used in Extract	Extract was Previously Tested	Intended Use of Testing	Lab Test Batch
Bulk Concentrate	Yes	No	Distribute to dispensary (Retail Sale)	Solvent Based Product (Not Previously Tested)
Bulk Concentrate	No	No	Distribute to dispensary (Retail Sale)	Non-Solvent Product (Not Previously Tested)
Bulk Concentrate	Yes	Yes	Distribute to dispensary (Retail Sale)	Processed Product (Previously Tested)
Bulk Concentrate	No	Yes	Distribute to dispensary (Retail Sale)	Processed Product (Previously Tested)
Bulk Edible	Yes	No	Distribute to dispensary (Retail Sale)	Solvent Based Product (Not Previously Tested)
Bulk Edible	No	No	Distribute to dispensary (Retail Sale)	Non-Solvent Product (Not Previously Tested)
Bulk Edible	Yes	Yes	Distribute to dispensary (Retail Sale)	Processed Product (Previously Tested)
Bulk Edible	No	Yes	Distribute to dispensary (Retail Sale)	Processed Product (Previously Tested)



Retesting Plant Material

Metrc Item Categories	Retest Type	Lab Test Batch
Bulk Flower/Buds	Heavy Metals	Retest - Metals
Shake/Trim		
Shake/Trim (By Strain)		
Bulk Flower/Buds	Microbial	Retest - Microbials (Plant Material)
Shake/Trim		
Shake/Trim (By Strain)		
Bulk Flower/Buds	Mycotoxins	Retest - Mycotoxins
Shake/Trim		
Shake/Trim (By Strain)		
Bulk Flower/Buds	Pesticides	Retest - Pesticides
Shake/Trim		
Shake/Trim (By Strain)		
Bulk Flower/Buds	Potency	Retest - Potency (Plant Material)
Shake/Trim		
Shake/Trim (By Strain)		
Bulk Flower/Buds	Water Activity	Retest – Water Activity
Shake/Trim		
Shake/Trim (By Strain)		

Retesting Marijuana Derived Ingredient or Manufactured Product

	Solvent Used in		
Metrc Item Categories	Extract	Retest Type	Lab Test Batch
Bulk Concentrate	N/A	Heavy Metals	Retest - Metals
Bulk Edible			
Bulk Concentrate	No	Microbial	Retest - Microbials (Non-Solvent Product)
Bulk Edible			
Bulk Concentrate	Yes	Microbial	Retest - Microbials (Solvent Based Product)
Bulk Edible			
Bulk Concentrate	N/A	Mycotoxins	Retest - Mycotoxins
Bulk Edible			
Bulk Concentrate	N/A	Pesticides	Retest - Pesticides
Bulk Edible			
Bulk Concentrate	N/A	Potency	Retest - Potency (Processed Product)
Bulk Edible			
Bulk Concentrate	Yes	Solvents	Retest - Solvents
Bulk Edible			

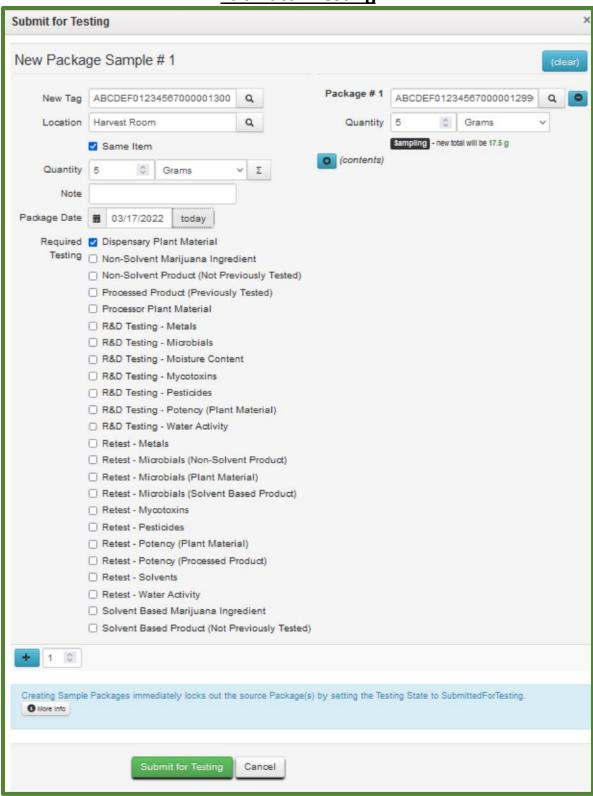


Research and Development Testing

Metrc Item Categories	Retest Type	Lab Test Batch
Bulk Flower/Buds	Heavy Metals	R&D Testing - Metals
Shake/Trim		
Shake/Trim (By Strain)		
Bulk Flower/Buds	Microbial	R&D Testing - Microbials
Shake/Trim		
Shake/Trim (By Strain)		
Bulk Flower/Buds	Moisture	R&D Testing - Moisture Content
Shake/Trim		
Shake/Trim (By Strain)		
Bulk Flower/Buds	Mycotoxins	R&D Testing - Mycotoxins
Shake/Trim		
Shake/Trim (By Strain)		
Bulk Flower/Buds	Pesticides	R&D Testing - Pesticides
Shake/Trim		
Shake/Trim (By Strain)		
Bulk Flower/Buds	Potency	R&D Testing - Potency (Plant Material)
Shake/Trim		
Shake/Trim (By Strain)		
Bulk Flower/Buds	Water Activity	R&D Testing – Water Activity
Shake/Trim		
Shake/Trim (By Strain)		



Lab Batch Testing





MMCP Guidance - Metrc Lab Test Batches

Appendix A: Test Batch Names with Included Tests Types

Effective March 28, 2022

Note: All information is organized alphabetically



Test Batch	Test Type
Dispensary Plant Material	Abamectin (ppm) Dispensary Plant Material
Dispensary Plant Material	Aflatoxin B1 (ppb) Dispensary Plant Material
Dispensary Plant Material	Aflatoxin B2 (ppb) Dispensary Plant Material
Dispensary Plant Material	Aflatoxin G1 (ppb) Dispensary Plant Material
Dispensary Plant Material	Aflatoxin G2 (ppb) Dispensary Plant Material
Dispensary Plant Material	Aldicarb (ppm) Dispensary Plant Material
Dispensary Plant Material	Arsenic (ppm) Dispensary Plant Material
Dispensary Plant Material	Bifenazate (ppm) Dispensary Plant Material
Dispensary Plant Material	Bile-Tolerant Gram-Negative Bacteria (CFU/g) Dispensary Plant Material
Dispensary Plant Material	Cadmium (ppm) Dispensary Plant Material
Dispensary Plant Material	CBD (%) Dispensary Plant Material
Dispensary Plant Material	CBDA (%) Dispensary Plant Material
Dispensary Plant Material	CBN (%) Dispensary Plant Material
Dispensary Plant Material	Cyfluthrin (ppm) Dispensary Plant Material
Dispensary Plant Material	Daminozide (ppm) Dispensary Plant Material
Dispensary Plant Material	DDVP (Dichlorvos) (ppm) Dispensary Plant Material
Dispensary Plant Material	Delta-8 THC (%) Dispensary Plant Material
Dispensary Plant Material	Diazinon (ppm) Dispensary Plant Material
Dispensary Plant Material	Dimethoate (ppm) Dispensary Plant Material
Dispensary Plant Material	E.coli (CFU/g) Dispensary Plant Material
Dispensary Plant Material	Etoxazole (ppm) Dispensary Plant Material
Dispensary Plant Material	Flonicamid (ppm) Dispensary Plant Material
Dispensary Plant Material	Fludioxonil (ppm) Dispensary Plant Material
Dispensary Plant Material	Foreign Matter (%) Dispensary Plant Material
Dispensary Plant Material	Imidacloprid (ppm) Dispensary Plant Material



Dispensary Plant Material	Lead (ppm) Dispensary Plant Material
Dispensary Plant Material	Mercury (ppm) Dispensary Plant Material
Dispensary Plant Material	Moisture Content (%) Dispensary Plant Material
Dispensary Plant Material	Myclobutanil (ppm) Dispensary Plant Material
Dispensary Plant Material	Ochratoxin A (ppb) Dispensary Plant Material
Dispensary Plant Material	Paclobutrazol (ppm) Dispensary Plant Material
Dispensary Plant Material	Piperonyl Butoxide (ppm) Dispensary Plant Material
Dispensary Plant Material	Pyrethrins (ppm) Dispensary Plant Material
Dispensary Plant Material	Salmonella (CFU/g) Dispensary Plant Material
Dispensary Plant Material	Spinosad (ppm) Dispensary Plant Material
Dispensary Plant Material	Spirotetramat (ppm) Dispensary Plant Material
Dispensary Plant Material	THC (%) Dispensary Plant Material
Dispensary Plant Material	THCA (%) Dispensary Plant Material
Dispensary Plant Material	THCV (%) Dispensary Plant Material
Dispensary Plant Material	Thiamethoxam (ppm) Dispensary Plant Material
Dispensary Plant Material	Total Aflatoxins (ppb) Dispensary Plant Material
Dispensary Plant Material	Total Coliforms (CFU/g) Dispensary Plant Material
Dispensary Plant Material	Total THC (%) Dispensary Plant Material
Dispensary Plant Material	Total Viable Aerobic Bacteria (CFU/g) Dispensary Plant Material
Dispensary Plant Material	Total Yeast and Mold (CFU/g) Dispensary Plant Material
Dispensary Plant Material	Trifloxystrobin (ppm) Dispensary Plant Material
Dispensary Plant Material	Water Activity (Aw) Dispensary Plant Material
Dispensary Plant Material	Total CBD (%) Dispensary Plant Material



Test Type
Abamectin (ppm) Non-Solvent Marijuana Ingredient
Aflatoxin B1 (ppb) Non-Solvent Marijuana Ingredient
Aflatoxin B2 (ppb) Non-Solvent Marijuana Ingredient
Aflatoxin G1 (ppb) Non-Solvent Marijuana Ingredient
Aflatoxin G2 (ppb) Non-Solvent Marijuana Ingredient
Aldicarb (ppm) Non-Solvent Marijuana Ingredient
Arsenic (ppm) Non-Solvent Marijuana Ingredient
Bifenazate (ppm) Non-Solvent Marijuana Ingredient
Cadmium (ppm) Non-Solvent Marijuana Ingredient
CBD (mg/g) Non-Solvent Marijuana Ingredient
CBDA (mg/g) Non-Solvent Marijuana Ingredient
CBN (mg/g) Non-Solvent Marijuana Ingredient
Cyfluthrin (ppm) Non-Solvent Marijuana Ingredient
Daminozide (ppm) Non-Solvent Marijuana Ingredient
DDVP (Dichlorvos) (ppm) Non-Solvent Marijuana Ingredient
Delta-8 THC (mg/g) Non-Solvent Marijuana Ingredient
Diazinon (ppm) Non-Solvent Marijuana Ingredient
Dimethoate (ppm) Non-Solvent Marijuana Ingredient
Etoxazole (ppm) Non-Solvent Marijuana Ingredient
Flonicamid (ppm) Non-Solvent Marijuana Ingredient
Fludioxonil (ppm) Non-Solvent Marijuana Ingredient
Imidacloprid (ppm) Non-Solvent Marijuana Ingredient
Lead (ppm) Non-Solvent Marijuana Ingredient
Mercury (ppm) Non-Solvent Marijuana Ingredient



Non-Solvent Marijuana Ingredient	Myclobutanil (ppm) Non-Solvent Marijuana Ingredient
Non-Solvent Marijuana Ingredient	Ochratoxin A (ppb) Non-Solvent Marijuana Ingredient
Non-Solvent Marijuana Ingredient	Paclobutrazol (ppm) Non-Solvent Marijuana Ingredient
Non-Solvent Marijuana Ingredient	Piperonyl Butoxide (ppm) Non-Solvent Marijuana Ingredient
Non-Solvent Marijuana Ingredient	Pyrethrins (ppm) Non-Solvent Marijuana Ingredient
Non-Solvent Marijuana Ingredient	Spinosad (ppm) Non-Solvent Marijuana Ingredient
Non-Solvent Marijuana Ingredient	Spirotetramat (ppm) Non-Solvent Marijuana Ingredient
Non-Solvent Marijuana Ingredient	THC (mg/g) Non-Solvent Marijuana Ingredient
Non-Solvent Marijuana Ingredient	THCA (mg/g) Non-Solvent Marijuana Ingredient
Non-Solvent Marijuana Ingredient	THCV (mg/g) Non-Solvent Marijuana Ingredient
Non-Solvent Marijuana Ingredient	Thiamethoxam (ppm) Non-Solvent Marijuana Ingredient
Non-Solvent Marijuana Ingredient	Total Aflatoxins (ppb) Non-Solvent Marijuana Ingredient
Non-Solvent Marijuana Ingredient	Total CBD (mg/g) Non-Solvent Marijuana Ingredient
Non-Solvent Marijuana Ingredient	Total THC (mg/g) Non-Solvent Marijuana Ingredient
Non-Solvent Marijuana Ingredient	Trifloxystrobin (ppm) Non-Solvent Marijuana Ingredient
Non-Solvent Marijuana Ingredient	Total THC (mg/g) Non-Solvent Marijuana Ingredient



Test Batch	Test Type
Non-Solvent Product (Not Previously Tested)	Abamectin (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Aflatoxin B1 (ppb) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Aflatoxin B2 (ppb) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Aflatoxin G1 (ppb) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Aflatoxin G2 (ppb) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Aldicarb (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Arsenic (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Bifenazate (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Bile-Tolerant Gram-Negative Bacteria (CFU/g) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Cadmium (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	CBD (mg/g) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	CBDA (mg/g) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	CBN (mg/g) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Cyfluthrin (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Daminozide (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	DDVP (Dichlorvos) (ppm) Non-Solvent Product (Not Previously Tested)



Non-Solvent Product (Not	
Previously Tested)	Delta-8 THC (mg/g) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not	
Previously Tested)	Diazinon (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not	
Previously Tested)	Dimethoate (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not	
Previously Tested)	E.coli (CFU/g) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not	
Previously Tested)	Etoxazole (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not	
Previously Tested)	Flonicamid (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not	
Previously Tested)	Fludioxonil (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not	
Previously Tested)	Foreign Matter (%) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not	
Previously Tested)	Imidacloprid (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not	
Previously Tested)	Lead (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not	
Previously Tested)	Mercury (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not	
Previously Tested)	Myclobutanil (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not	
Previously Tested)	Ochratoxin A (ppb) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not	
Previously Tested)	Paclobutrazol (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not	Piperonyl Butoxide (ppm) Non-Solvent Product (Not Previously
Previously Tested)	Tested)
Non-Solvent Product (Not	
Previously Tested)	Pyrethrins (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not	
Previously Tested)	Salmonella (CFU/g) Non-Solvent Product (Not Previously Tested)



Non-Solvent Product (Not Previously Tested)	Spinosad (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Spirotetramat (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	THC (mg/g) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	THCA (mg/g) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	THCV (mg/g) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Thiamethoxam (ppm) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Total Aflatoxins (ppb) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Total Coliforms (CFU/g) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Total CBD (mg/g) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Total THC (mg/g) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Total Viable Aerobic Bacteria (CFU/g) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Total Yeast and Mold (CFU/g) Non-Solvent Product (Not Previously Tested)
Non-Solvent Product (Not Previously Tested)	Trifloxystrobin (ppm) Non-Solvent Product (Not Previously Tested)



Test Batch	Test Type
Processed Product (Previously Tested)	Bile-Tolerant Gram-Negative Bacteria (CFU/g) Processed Product (Previously Tested)
Processed Product (Previously Tested)	CBD (mg/g) Processed Product (Previously Tested)
Processed Product (Previously Tested)	CBDA (mg/g) Processed Product (Previously Tested)
Processed Product (Previously Tested)	CBN (mg/g) Processed Product (Previously Tested)
Processed Product (Previously Tested)	Delta-8 THC (mg/g) Processed Product (Previously Tested)
Processed Product (Previously Tested)	E.coli (CFU/g) Processed Product (Previously Tested)
Processed Product (Previously Tested)	Foreign Matter (%) Processed Product (Previously Tested)
Processed Product (Previously Tested)	Salmonella (CFU/g) Processed Product (Previously Tested)
Processed Product (Previously Tested)	THC (mg/g) Processed Product (Previously Tested)
Processed Product (Previously Tested)	THCA (mg/g) Processed Product (Previously Tested)
Processed Product (Previously Tested)	THCV (mg/g) Processed Product (Previously Tested)
Processed Product (Previously Tested)	Total Coliforms (CFU/g) Processed Product (Previously Tested)
Processed Product (Previously Tested)	Total CBD (mg/g) Processed Product (Previously Tested)
Processed Product (Previously Tested)	Total THC (mg/g) Processed Product (Previously Tested)
Processed Product (Previously Tested)	Total Viable Aerobic Bacteria (CFU/g) Processed Product (Previously Tested)
Processed Product (Previously Tested)	Total Yeast and Mold (CFU/g) Processed Product (Previously Tested)



Test Batch	Test Type
Processor Plant Material	Abamectin (ppm) Processor Plant Material
Processor Plant Material	Aldicarb (ppm) Processor Plant Material
Processor Plant Material	Bifenazate (ppm) Processor Plant Material
Processor Plant Material	CBD (%) Processor Plant Material
Processor Plant Material	CBDA (%) Processor Plant Material
Processor Plant Material	CBN (%) Processor Plant Material
Processor Plant Material	Cyfluthrin (ppm) Processor Plant Material
Processor Plant Material	Daminozide (ppm) Processor Plant Material
Processor Plant Material	DDVP (Dichlorvos) (ppm) Processor Plant Material
Processor Plant Material	Delta-8 THC (%) Processor Plant Material
Processor Plant Material	Diazinon (ppm) Processor Plant Material
Processor Plant Material	Dimethoate (ppm) Processor Plant Material
Processor Plant Material	Etoxazole (ppm) Processor Plant Material
Processor Plant Material	Flonicamid (ppm) Processor Plant Material
Processor Plant Material	Fludioxonil (ppm) Processor Plant Material
Processor Plant Material	Foreign Matter (%) Processor Plant Material
Processor Plant Material	Imidacloprid (ppm) Processor Plant Material
Processor Plant Material	Moisture Content (%) Processor Plant Material
Processor Plant Material	Myclobutanil (ppm) Processor Plant Material
Processor Plant Material	Paclobutrazol (ppm) Processor Plant Material
Processor Plant Material	Piperonyl Butoxide (ppm) Processor Plant Material
Processor Plant Material	Pyrethrins (ppm) Processor Plant Material
Processor Plant Material	Spinosad (ppm) Processor Plant Material
Processor Plant Material	Spirotetramat (ppm) Processor Plant Material
Processor Plant Material	THC (%) Processor Plant Material



Processor Plant Material	THCA (%) Processor Plant Material
Processor Plant Material	THCV (%) Processor Plant Material
Processor Plant Material	Thiamethoxam (ppm) Processor Plant Material
Processor Plant Material	Total CBD (%) Processor Plant Material
Processor Plant Material	Total THC (%) Processor Plant Material
Processor Plant Material	Trifloxystrobin (ppm) Processor Plant Material

Test Batch	Test Type	
R&D Testing - Metals	Arsenic (ppm) R&D Testing	
R&D Testing - Metals	Cadmium (ppm) R&D Testing	
R&D Testing - Metals	Lead (ppm) R&D Testing	
R&D Testing - Metals	Mercury (ppm) R&D Testing	

Test Batch	Test Type
R&D Testing - Microbials	Bile-Tolerant Gram-Negative Bacteria (CFU/g) R&D Testing
R&D Testing - Microbials	E.coli (CFU/g) R&D Testing
R&D Testing - Microbials	Salmonella (CFU/g) R&D Testing
R&D Testing - Microbials	Total Coliforms (CFU/g) R&D Testing
R&D Testing - Microbials	Total Viable Aerobic Bacteria (CFU/g) R&D Testing
R&D Testing - Microbials	Total Yeast and Mold (CFU/g) R&D Testing

Test Batch	Test Type
R&D Testing - Moisture Content	Moisture Content (%) R&D Testing

Test Batch	Test Type
R&D Testing - Mycotoxins	Aflatoxin B1 (ppb) R&D Testing



R&D Testing - Mycotoxins	Aflatoxin B2 (ppb) R&D Testing
R&D Testing - Mycotoxins	Aflatoxin G1 (ppb) R&D Testing
R&D Testing - Mycotoxins	Aflatoxin G2 (ppb) R&D Testing
R&D Testing - Mycotoxins	Total Aflatoxins (ppb) R&D Testing
R&D Testing - Mycotoxins	Ochratoxin A (ppb) R&D Testing

Test Batch	Test Type
R&D Testing - Pesticides	Abamectin (ppm) R&D Testing
R&D Testing - Pesticides	Aldicarb (ppm) R&D Testing
R&D Testing - Pesticides	Bifenazate (ppm) R&D Testing
R&D Testing - Pesticides	Cyfluthrin (ppm) R&D Testing
R&D Testing - Pesticides	Daminozide (ppm) R&D Testing
R&D Testing - Pesticides	DDVP (Dichlorvos) (ppm) R&D Testing
R&D Testing - Pesticides	Diazinon (ppm) R&D Testing
R&D Testing - Pesticides	Dimethoate (ppm) R&D Testing
R&D Testing - Pesticides	Etoxazole (ppm) R&D Testing
R&D Testing - Pesticides	Flonicamid (ppm) R&D Testing
R&D Testing - Pesticides	Fludioxonil (ppm) R&D Testing
R&D Testing - Pesticides	Imidacloprid (ppm) R&D Testing
R&D Testing - Pesticides	Myclobutanil (ppm) R&D Testing
R&D Testing - Pesticides	Paclobutrazol (ppm) R&D Testing
R&D Testing - Pesticides	Piperonyl Butoxide (ppm) R&D Testing
R&D Testing - Pesticides	Pyrethrins (ppm) R&D Testing
R&D Testing - Pesticides	Spinosad (ppm) R&D Testing
R&D Testing - Pesticides	Spirotetramat (ppm) R&D Testing
R&D Testing - Pesticides	Thiamethoxam (ppm) R&D Testing



R&D Testing - Pesticides	Trifloxystrobin (ppm) R&D Testing

Test Batch	Test Type
R&D Testing - Potency (Plant Material)	CBD (%) R&D Testing (Plant Material)
R&D Testing - Potency (Plant Material)	CBDA (%) R&D Testing (Plant Material)
R&D Testing - Potency (Plant Material)	CBN (%) R&D Testing (Plant Material)
R&D Testing - Potency (Plant Material)	Delta-8 THC (%) R&D Testing (Plant Material)
R&D Testing - Potency (Plant Material)	THC (%) R&D Testing (Plant Material)
R&D Testing - Potency (Plant Material)	THCA (%) R&D Testing (Plant Material)
R&D Testing - Potency (Plant Material)	THCV (%) R&D Testing (Plant Material)
R&D Testing - Potency (Plant Material)	Total CBD (%) R&D Testing (Plant Material)
R&D Testing - Potency (Plant Material)	Total THC (%) R&D Testing (Plant Material)

Test Batch	Test Type
R&D Testing - Water Activity	Water Activity (Aw) R&D Testing

Test Batch	Test Type	
Retest - Metals	Arsenic (ppm) Retest	
Retest - Metals	Cadmium (ppm) Retest	
Retest - Metals	Lead (ppm) Retest	
Retest - Metals	Mercury (ppm) Retest	

Test Batch	Test Type
Retest - Microbials (Non-Solvent Product)	Bile-Tolerant Gram-Negative Bacteria (CFU/g) Retest (Non-Solvent Product)
Retest - Microbials (Non-Solvent Product)	E.coli (CFU/g) Retest (Non-Solvent Product)



Retest - Microbials (Non-Solvent Product)	Salmonella (CFU/g) Retest (Non-Solvent Product)
Retest - Microbials (Non-Solvent	
Product)	Total Coliforms (CFU/g) Retest (Non-Solvent Product)
Retest - Microbials (Non-Solvent	Total Viable Aerobic Bacteria (CFU/g) Retest (Non-Solvent
Product)	Product)
Retest - Microbials (Non-Solvent	
Product)	Total Yeast and Mold (CFU/g) Retest (Non-Solvent Product)

Test Batch	Test Type
Retest - Microbials (Plant	Bile-Tolerant Gram-Negative Bacteria (CFU/g) Retest (Plant
Material)	Material)
Retest - Microbials (Plant	
Material)	E.coli (CFU/g) Retest (Plant Material)
Retest - Microbials (Plant	
Material)	Salmonella (CFU/g) Retest (Plant Material)
Retest - Microbials (Plant	
Material)	Total Coliforms (CFU/g) Retest (Plant Material)
Retest - Microbials (Plant	
Material)	Total Viable Aerobic Bacteria (CFU/g) Retest (Plant Material)
Retest - Microbials (Plant	
Material)	Total Yeast and Mold (CFU/g) Retest (Plant Material)

Test Batch	Test Type
Retest - Microbials (Solvent Based Product)	Bile-Tolerant Gram-Negative Bacteria (CFU/g) Retest (Solvent Based Product)
Retest - Microbials (Solvent Based Product)	E.coli (CFU/g) Retest (Solvent Based Product)
Retest - Microbials (Solvent Based Product)	Salmonella (CFU/g) Retest (Solvent Based Product)
Retest - Microbials (Solvent Based Product)	Total Coliforms (CFU/g) Retest (Solvent Based Product)



Retest - Microbials (Solvent Based Product)	Total Viable Aerobic Bacteria (CFU/g) Retest (Solvent Based Product)
Retest - Microbials (Solvent Based Product)	Total Yeast and Mold (CFU/g) Retest (Solvent Based Product)

Test Batch	Test Type	
Retest - Mycotoxins	Aflatoxin B1 (ppb) Retest	
Retest - Mycotoxins	Aflatoxin B2 (ppb) Retest	
Retest - Mycotoxins	Aflatoxin G1 (ppb) Retest	
Retest - Mycotoxins	Aflatoxin G2 (ppb) Retest	
Retest - Mycotoxins	Ochratoxin A (ppb) Retest	
Retest - Mycotoxins	Total Aflatoxins (ppb) Retest	

Test Batch	Test Type
Retest - Pesticides	Abamectin (ppm) Retest
Retest - Pesticides	Aldicarb (ppm) Retest
Retest - Pesticides	Bifenazate (ppm) Retest
Retest - Pesticides	Cyfluthrin (ppm) Retest
Retest - Pesticides	Daminozide (ppm) Retest
Retest - Pesticides	DDVP (Dichlorvos) (ppm) Retest
Retest - Pesticides	Diazinon (ppm) Retest
Retest - Pesticides	Dimethoate (ppm) Retest
Retest - Pesticides	Etoxazole (ppm) Retest
Retest - Pesticides	Flonicamid (ppm) Retest
Retest - Pesticides	Fludioxonil (ppm) Retest
Retest - Pesticides	Imidacloprid (ppm) Retest
Retest - Pesticides	Myclobutanil (ppm) Retest



Retest - Pesticides	Paclobutrazol (ppm) Retest
Retest - Pesticides	Piperonyl Butoxide (ppm) Retest
Retest - Pesticides	Pyrethrins (ppm) Retest
Retest - Pesticides	Spinosad (ppm) Retest
Retest - Pesticides	Spirotetramat (ppm) Retest
Retest - Pesticides	Thiamethoxam (ppm) Retest
Retest - Pesticides	Trifloxystrobin (ppm) Retest

Test Batch	Test Type
Retest - Potency (Plant Material)	CBD (%) Retest (Plant Material)
Retest - Potency (Plant Material)	CBDA (%) Retest (Plant Material)
Retest - Potency (Plant Material)	CBN (%) Retest (Plant Material)
Retest - Potency (Plant Material)	Delta-8 THC (%) Retest (Plant Material)
Retest - Potency (Plant Material)	Moisture Content (%) Retest (Plant Material)
Retest - Potency (Plant Material)	THC (%) Retest (Plant Material)
Retest - Potency (Plant Material)	THCA (%) Retest (Plant Material)
Retest - Potency (Plant Material)	THCV (%) Retest (Plant Material)
Retest - Potency (Plant Material)	Total CBD (%) Retest (Plant Material)
Retest - Potency (Plant Material)	Total THC (%) Retest (Plant Material)



Test Batch	Test Type
Retest - Potency (Processed Product)	CBD (mg/g) Retest (Processed Product)
Retest - Potency (Processed Product)	CBDA (mg/g) Retest (Processed Product)
Retest - Potency (Processed Product)	CBN (mg/g) Retest (Processed Product)
Retest - Potency (Processed Product)	Delta-8 THC (mg/g) Retest (Processed Product)
Retest - Potency (Processed Product)	THC (mg/g) Retest (Processed Product)
Retest - Potency (Processed Product)	THCA (mg/g) Retest (Processed Product)
Retest - Potency (Processed Product)	THCV (mg/g) Retest (Processed Product)
Retest - Potency (Processed Product)	Total CBD (mg/g) Retest (Processed Product)
Retest - Potency (Processed Product)	Total THC (mg/g) Retest (Processed Product)

Test Batch	Test Type
Retest - Solvents	Acetone (ppm) Retest
Retest - Solvents	Benzene (ppm) Retest
Retest - Solvents	Ethanol (ppm) Retest
Retest - Solvents	Heptanes (ppm) Retest
Retest - Solvents	Hexane (ppm) Retest
Retest - Solvents	Isobutane (ppm) Retest
Retest - Solvents	Isopropyl Alcohol (ppm) Retest
Retest - Solvents	N-butane (ppm) Retest
Retest - Solvents	Pentane (ppm) Retest
Retest - Solvents	Propane (ppm) Retest
Retest - Solvents	Xylenes (ppm) Retest

Test Batch	Test Type
Retest - Water Activity	Water Activity (Aw) Retest (Plant Material)



Test Batch	Test Type
Solvent Based Marijuana Ingredient	Abamectin (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Acetone (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Aflatoxin B1 (ppb) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Aflatoxin B2 (ppb) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Aflatoxin G1 (ppb) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Aflatoxin G2 (ppb) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Aldicarb (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Arsenic (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Benzene (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Bifenazate (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Cadmium (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	CBD (mg/g) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	CBDA (mg/g) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	CBN (mg/g) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Cyfluthrin (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Daminozide (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	DDVP (Dichlorvos) (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Delta-8 THC (mg/g) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Diazinon (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Dimethoate (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Ethanol (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Etoxazole (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Flonicamid (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Fludioxonil (ppm) Solvent Based Marijuana Ingredient
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Solvent Based Marijuana Ingredient	Heptanes (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Hexane (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Imidacloprid (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Isobutane (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Isopropyl Alcohol (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Lead (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Mercury (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Myclobutanil (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	N-butane (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Ochratoxin A (ppb) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Paclobutrazol (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Pentane (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Piperonyl Butoxide (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Propane (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Pyrethrins (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Spinosad (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Spirotetramat (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	THC (mg/g) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	THCA (mg/g) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	THCV (mg/g) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Thiamethoxam (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Total Aflatoxins (ppb) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Total CBD (mg/g) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Total THC (mg/g) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Trifloxystrobin (ppm) Solvent Based Marijuana Ingredient
Solvent Based Marijuana Ingredient	Xylenes (ppm) Solvent Based Marijuana Ingredient



Test Batch	Test Type
Solvent Based Product (Not Previously Tested)	Abamectin (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Acetone (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Aflatoxin B1 (ppb) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Aflatoxin B2 (ppb) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Aflatoxin G1 (ppb) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Aflatoxin G2 (ppb) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Aldicarb (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Arsenic (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Benzene (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Bifenazate (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Bile-Tolerant Gram-Negative Bacteria (CFU/g) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Cadmium (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	CBD (mg/g) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	CBDA (mg/g) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	CBN (mg/g) Solvent Based Product (Not Previously Tested)



Solvent Based Product (Not Previously Tested)	Cyfluthrin (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Daminozide (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	DDVP (Dichlorvos) (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Delta-8 THC (mg/g) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Diazinon (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Dimethoate (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	E.coli (CFU/g) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Ethanol (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Etoxazole (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Flonicamid (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Fludioxonil (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Foreign Matter (%) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Heptanes (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Hexane (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Imidacloprid (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Isobutane (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Isopropyl Alcohol (ppm) Solvent Based Product (Not Previously Tested)



Solvent Based Product (Not Previously	
Tested)	Lead (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously	Mercury (ppm) Solvent Based Product (Not Previously
Tested)	Tested)
Solvent Based Product (Not Previously	Myclobutanil (ppm) Solvent Based Product (Not Previously
Tested)	Tested)
Solvent Based Product (Not Previously	N-butane (ppm) Solvent Based Product (Not Previously
Tested)	Tested)
Solvent Based Product (Not Previously Tested)	Ochratoxin A (ppb) Solvent Based Product (Not Previously Tested)
,	,
Solvent Based Product (Not Previously Tested)	Paclobutrazol (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously	Pentane (ppm) Solvent Based Product (Not Previously
Tested)	Tested)
Solvent Based Product (Not Previously	Piperonyl Butoxide (ppm) Solvent Based Product (Not
Tested)	Previously Tested)
Solvent Based Product (Not Previously	Propane (ppm) Solvent Based Product (Not Previously
Tested)	Tested)
Solvent Based Product (Not Previously	Pyrethrins (ppm) Solvent Based Product (Not Previously
Tested)	Tested)
Solvent Based Product (Not Previously	Salmonella (CFU/g) Solvent Based Product (Not Previously
Tested)	Tested)
Solvent Based Product (Not Previously	Spinosad (ppm) Solvent Based Product (Not Previously
Tested)	Tested)
Solvent Based Product (Not Previously	Spirotetramat (ppm) Solvent Based Product (Not Previously
Tested)	Tested)
Solvent Based Product (Not Previously	
Tested)	THC (mg/g) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously	
Tested)	THCA (mg/g) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously	
Tested)	THCV (mg/g) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously	Thiamethoxam (ppm) Solvent Based Product (Not Previously
Tested)	Tested)



Solvent Based Product (Not Previously Tested)	Total Aflatoxins (ppb) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Total Coliforms (CFU/g) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Total CBD (mg/g) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Total THC (mg/g) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Total Viable Aerobic Bacteria (CFU/g) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Total Yeast and Mold (CFU/g) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Trifloxystrobin (ppm) Solvent Based Product (Not Previously Tested)
Solvent Based Product (Not Previously Tested)	Xylenes (ppm) Solvent Based Product (Not Previously Tested)