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Sampling Procedure for Cannabis Flower and Cannabis Products				
Reference Method(s): Oklahoma Medical Marijuana Authority				
Approved by Lab Director: 				

Revision No.	Effective Date	Description of Change(s)
0	1/6/2021	New Document
1	4/13/2021	Updated SOP Numbering
2	3/24/2022	Combined sampling procedures for all matrices, added procedure for sampling prerolls, added field sampling log as Appendix A
3	11/10/2022	3.b , 3.d - Added "at least"
4	11/17/2022	Added procedure for fresh frozen harvest batches, updated "retention" to "reserve" to match legislative wording

1. Introduction:

- a. This procedure describes the OMMA-approved sampling requirements for cannabis harvest batches and cannabis production batches for full compliance testing. This includes both the Test sample (TS) and Reserve Sample (RS).
- b. All samples, regardless of matrix, should be submitted in their final (ready-for-sale) form. i.e. flower should be dried and cured, edibles should be in their finished form (flavors, frostings, etc) and weight, and concentrates should be in their finished form as they are intended to be sold (example - samples being sold as vape carts should be submitted in the cartridge)
- c. A field sampling log is provided in this SOP but growers and producers can opt to use an internally generated form if preferred.

2. Equipment needed:

Sampling Procedure for Cannabis Flower and Cannabis Products

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- a. Stainless Steel Bowl
 - b. Table top balance (able to accommodate the weight of your bowl and a maximum of 23g).
 - c. Stainless Steel Tongs
 - d. Fresh 10% Bleach solution (in a spray bottle)
 - e. 70% Ethanol or 70% Isopropyl Alcohol solution (in a spray bottle)
 - f. Clean sampling containers
 - g. Clean gloves
 - h. Clean paper towels
 - i. Sampling jars (two per each sample)
 - j. Heat gun or hair dryer
3. Cleaning Procedure:
- a. Wearing gloves, prepare 10% bleach solution by mixing 9 parts water to 1 part bleach. Mix well.
 - b. Spray sampling tools (mixing bowl and tongs) liberally with 10% bleach solution and allow it to sit for at least 5 minutes.
 - c. Dry with clean paper towels.
 - d. Spray sampling tools with 70% Ethanol (or Isopropyl Alcohol) and allow it to sit for at least 5 minutes.
 - e. Wipe dry with clean paper towels.
 - f. Set aside on a clean surface.
4. Sampling Procedure for Dried/Cured Harvest Batches:
- a. Samples should be submitted to the laboratory in TWO sample containers with equal weight of sample in each. One sample is the Test Sample (TS), the other is the reserve Sample (RS).
 - b. Selecting sampling sizes.
 - i. Harvest batch size: Less than 6lbs
 1. Place clean stainless steel bowl on the table top balance and tare balance.
 2. Using the clean tongs randomly select flower from the harvest batch until 10g has been weighed in the bowl.
 3. Gently mix flower with tongs.
 4. Equally separate the sample into two separate sample containers (5g in each).
 5. Label sample containers with the Strain Name, Batch ID, Weight (g), and TS (Test Sample) or RS (Reserve Sample).
 6. Seal both samples with a custody seal or a piece of tape over the lid.
 7. A total of 10g will be submitted.

- ii. Harvest batch size: Greater than 6 lbs
 1. Use the following calculation to determine your sampling size for the test and reserve samples:
Harvest batch size (lbs) x 2.268 = sampling size (grams)
Example: 8.5lb harvest batch size
Sampling Size = 8.5 x 2.268 = 19.28g
 2. Place clean, stainless steel bowl on the table top balance and tare balance.
 3. Using the clean tongs, randomly select flower from the harvest batch until the weight calculated from the above formula has been weighed into the bowl. (Using the example above, 19.28g would be placed in the bowl).
 4. Remove bowl from balance and gently mix flower with tongs.
 5. Place sampling jar on balance and tare.
 6. From the bowl, randomly select 5g of sample and place into each of the two separate sampling containers.
 7. Label sample containers with the Strain Name, Batch ID, Weight (g), and TS (Test Sample) or RS (Reserve Sample).
 8. Seal both samples with a custody seal or piece of tape over the lid.
 9. The remaining flower in the bowl can be returned to the harvest batch.
 10. A total of 10g will be submitted for testing.

5. Sampling Procedure for Fresh Frozen Harvest batches:

- a. Samples should be submitted to the laboratory in TWO sample containers with equal weight of sample in each. One sample is the Test Sample (TS), the other is the Reserve Sample (RS).
- b. Selecting sampling sizes.
 - i. Harvest batch size: Equal to or Less than 50 lbs
 1. Place clean stainless steel bowl on the table top balance and tare balance.
 2. Using the clean tongs randomly select flower from the harvest batch until 10g has been weighed in the bowl.
 3. Gently mix flower with tongs.
 4. Equally separate the sample into two separate sample containers (5g in each).
 5. Label sample containers with the Strain Name, Batch ID, Weight (g), and TS (Test Sample) or RS (Reserve Sample).
 6. Seal both samples with a custody seal or a piece of tape over the lid.
 7. A total of 10 g will be submitted.
- c. It is very important that fresh frozen harvest batches are sampled quickly to avoid thawing of the batch. Once samples are created, return both the harvest batch and the samples to the freezer until transport.

6. Sampling Procedure for Prerolls:

- a. Select the appropriate number of prerolls to be submitted for testing according to Appendix E of the current Title 310 Chapter 681 regulations.
- b. A minimum of 4 one gram prerolls or 8 half gram prerolls must be submitted.
 - i. Label sample containers with the Sample Name, Batch ID, Weight (g), and TS (Test Sample) or RS (Reserve Sample).
 - ii. Randomly select the appropriate number of prerolls and place in the sampling container.
 - iii. Label sample containers with the Sample Name, Batch ID, Weight (g), and TS (Test Sample) or RS (Reserve Sample).
 - iv. Seal both samples with a custody seal or piece of tape over the lid.

7. Sampling Procedure for Concentrate Production Batches:

- a. Samples should be submitted to the laboratory in two sample containers with equal weight of sample in each. One sample is the Test Sample (TS) the other is the reserve Sample (RS).
- b. A total of 6 grams of concentrate must be submitted to the lab for testing. (3g for the TS and 3g for the RS).
- c. Samples should be submitted in their final sale-ready form.
 - i. Carts – submit 6 one gram carts or 12 half gram carts.
 - ii. Distillate/Crumble/Shatter/Batter/Etc. – submit 6g (3g in each container).
- d. Distillate samples may need to be warmed using the heat gun or hair dryer to more easily remove sample from the jar.
- e. Procedure:
 - i. Place first sampling container on the table top balance and tare balance.
 - ii. Using the clean spatula/tongs, weigh 3g of concentrate into the first sample container.
 - iii. Using the sampling tools, weigh an additional 3g of concentrate into the second sample container.
 - iv. Label sample containers with the Sample Name, Batch ID, Weight (g), and TS (Test Sample) or RS (Reserve Sample).
 - v. Seal both samples with a custody seal or piece of tape over the lid.
 - vi. A total of 6g will be submitted for testing.

8. Sampling Procedure for Infused Production Batches:

- a. Select the appropriate number of units to be submitted for testing according to Appendix D of the current Title 310 Chapter 681 regulations.
- b. Samples should be submitted to the laboratory in two sample containers with equal weight of sample in each. One sample is the Test Sample (TS), the other is the reserve Sample (RS).

- c. A total of 10 grams of product must be submitted to the lab for testing. (5g for the TS and 5g for the RS).
- d. If a single product exceeds 10g, then submit a single finished product for testing. The reserve sample will be prepared in the lab.
- e. Sampling Procedure
 - i. Place first sampling container on the table top balance and tare balance (additionally, edible and topical samples can be submitted in their final product packaging).
 - ii. Using the clean spatula/tongs, weigh 5g of finished product into the first sample container.
 - iii. Using the sampling tools, weigh an additional 5g of finished product into the second sample container.
 - iv. Label sample containers with the Sample Name, Batch ID, Weight (g), and TS (Test Sample) or RS (Reserve Sample).
 - v. Seal both samples with a custody seal or piece of tape over the lid.
 - vi. A total of 10g of product will be submitted for testing.

9. Storage of Samples

- a. After each sampling event, samples should be placed in a refrigerator or on ice in a cooler until transportation to the laboratory.
 - i. Fresh frozen samples must be stored in freezer

10. Transportation of Samples

- a. Samples should be transported on ice for preservation.
 - i. Fresh frozen samples must be transported on ice and received at the lab on ice