

STANDARD OPERATING PROCEDURE

SOP for Sample Preparation

A step-by-step standard operating procedure outlining how to properly prepare different cannabis samples (flowers, leaves, extracts) for NIR analysis. It guides users through collection, drying, grinding, and handling methods to ensure accurate and consistent testing results.



INSTRUMENT

Valenveras Portable Lab

SAMPLES

Flowers • Leaves • Extracts



DRY FLOWERS



FRESH FLOWERS



FRESH LEAVES



EXTRACTS & HASH

SOP FOR SAMPLE PREPARATION

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01 Introduction

This procedure outlines the steps for preparing dried and ground cannabis samples for NIR analysis using the Valenveras Portable Lab, ensuring accurate measurement of cannabinoids, terpenes, and nutrients. It is intended for end-users involved in sample preparation for Valenveras analysis.



02 Materials & Equipment


GRINDER

BRUSH

MESH

WIPES

OVEN OR AIR FRYER

ISOPROPYL ALCOHOL



03 Calibration



1 TURN ON THE VALENVERAS ANALYZER



2 PLACE THE SAMPLE CUP IN THE CORRECT PLACE



3 REMOVE THE CALIBRATION TILE LID.

Place the white calibration tile inside the cup, facing down.



4 PRESS THE CALIBRATION FUNCTION IN THE APP.

Calibration time is 8 seconds.



5 THE CALIBRATION WHITE TILE MUST BE KEPT CLEAN AT ALL TIMES.

Ensure it is not touched and always cover it back with its lid.

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Natural Dry Flowers

SAMPLE PREPARATION METHODOLOGY



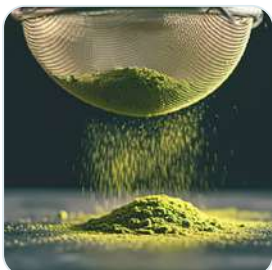
1 COLLECT THE SAMPLE

Collect cannabis samples ensuring they represent the batch accurately. Handle the samples with gloves to prevent contamination.



2 GRIND SAMPLES

Grind a minimum of 3 grams of the dried sample using the grinder until the smallest possible particle size is achieved. Clean the grinder between samples to prevent cross-contamination.



3 SIEVING

Pass the ground sample through a sieve (e.g., 1 mm mesh) to achieve a uniform particle size. Discard larger particles that do not pass through the sieve.



4 CALIBRATION & ANALYZE

- 1 Clean the glass surface of the sample cup with alcohol.
- 2 Calibration.
- 3 Place the ground material into the sample cup.

Make sure the material covers the entire surface of the cup and press it with the sample press.

- 4 Analysis: Follow the prompts on the Mobile App to complete the analysis.

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SAMPLE PREPARATION METHODOLOGY

Natural Fresh Flowers



EXPRESS



1 COLLECT THE SAMPLE

Collect cannabis samples ensuring they represent the batch accurately. Handle the samples with gloves to prevent contamination.



2 TRIM SAMPLES

Trim the cannabis as it will appear in the final product. Ensure uniformity to reflect real final flowers.



3 DRY SAMPLES

Dry the samples using an oven or air cooker set to 140°F (60°C) for 24 hours, or until their weight remains stable.



4 CALIBRATION & ANALYZE

- 1 Clean the glass surface of the sample cup with alcohol.
- 2 Calibration.
- 3 Place the ground material into the sample cup.

Make sure the material covers the entire surface of the cup and press it with the sample press.

- 4 Analysis: Follow the prompts on the Mobile App to complete the analysis.

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SAMPLE PREPARATION METHODOLOGY

Natural Fresh Leaves



1 COLLECT THE SAMPLE

Collect cannabis samples ensuring they represent the batch accurately. Handle the samples with gloves to prevent contamination.



2 DRY SAMPLES

Dry the samples using an oven or air cooker set to 140°F (60°C) for 2 hours, or until their weight remains stable.



3 GRIND SAMPLES

Grind a minimum of 1 gram of the dried sample using the grinder until the smallest possible particle size is achieved. Clean the grinder between samples to prevent cross-contamination.



4 CALIBRATION & ANALYZE

- 1 Clean the glass surface of the sample cup with alcohol.
- 2 Calibration.
- 3 Place the ground material into the sample cup.

Make sure the material covers the entire surface of the cup and press it with the sample press.

- 4 Analysis: Follow the prompts on the Mobile App to complete the analysis.

07 SAMPLE PREPARATION METHODOLOGY

Solid Extract



1 COLLECT THE SAMPLE

Collect cannabis samples ensuring they represent the batch accurately. Handle the samples with gloves to prevent contamination.



2 PREPARE THE SAMPLE

Place the sample in the sample cup and press it with the sample press. This ensures a uniform surface for analysis.



3 CALIBRATION & ANALYZE

Place the ground material into the sample cup.

Make sure the material covers the entire surface of the cup and press it with the sample press.

(This ensures a uniform surface for analysis.)

Follow the prompts on the Mobile App to complete the analysis.





POWERED BY BÜCHI

SOP for Sample Preparation



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