FARMER FREEMAN

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Pathogen Diagnostic Report

Botrytis

CUSTOMER NAME	**REPORT DATE**
Alex Thompson	October 15, 2026
COMPANY / ORGANIZATION	**RUN DATE**
Farmer Freeman	October 15, 2026
EMAIL	**DATE OF LAB RECEIPT**
support@farmerfreeman.com	October 14, 2026

Diagnostic Results

Sample ID	Strain	Nickname	Sample Type	Botrytis	IC
VT00001	AK-47	AK-A01	3x Leaf	NOT DETECTED	PASS 25.80
VT00002	Pineapple Express	PE-B02	3x Leaf	DETECTED 24.20	N/A 24.90
VT00003	Banana Kush	BK-C03	3x Leaf	NOT DETECTED	PASS 25.10
VT00004	Sunset Sherbet	SS-D04	3x Leaf	DETECTED 27.60	N/A 24.40
VT00005	Strawberry Cough	SC-E05	3x Leaf	NOT DETECTED	PASS 25.70

- DETECTED — Pathogen present; IC not required for detection
- NOT DETECTED — No pathogen signal; IC valid
- UNDER ANALYSIS — IC failed; being retested, ready in 1–2 business days
- Lower Cq values typically correlate with a greater pathogen load in the sample.

Interpretation Summary

Pathogen Detected

One or more samples tested positive for: **BOT**. Immediate action is recommended. Isolate affected plants and equipment. Do not take cuttings from positive plants. Sanitize tools between plants. Contact a cultivation advisor to develop a remediation plan.

About the Pathogens Tested

Botrytis cinerea (BOT)

Channel: FAM **Type:** Fungus **Threshold:** Cq < 35

Botrytis cinerea (gray mold) is one of the most common and destructive cannabis pathogens, particularly during flowering. It produces gray, fuzzy sporulation on buds, stems, and leaves under high humidity conditions. Infected material must be removed immediately to prevent rapid spread through the canopy.

Methodology

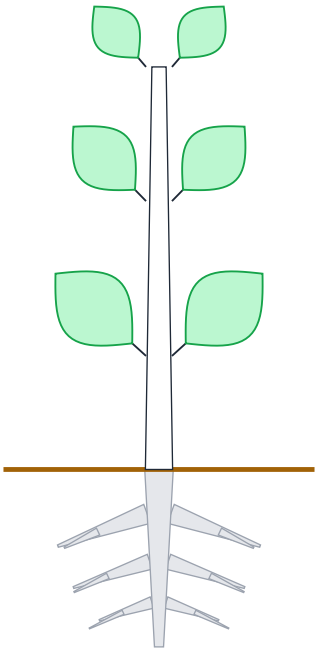
This report utilizes quantitative PCR (qPCR) performed on an Agilent AriaMX Real-Time PCR instrument. DNA is extracted from plant tissue using a validated extraction protocol. Each reaction includes an internal extraction and amplification control (IC/HEX channel) to confirm assay validity. A Cq threshold of 35 cycles is applied for most targets (40 cycles for Russet Mite): samples with Cq at or below threshold are reported as Detected. Samples with Cq between 35 and 40 cycles are also reported as Detected when the IC Cq is below 35, confirming assay validity. A positive target result is reported as Detected regardless of IC status. Wells with no target signal and a failed IC are reported as Under Analysis and will be retested by the laboratory.

Questions? Contact support@farmerfreeman.com or call 202-697-7640. Submit new samples at www.farmerfreeman.com.

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VT00001

AK-47
AK-A01



No pathogen detected
Pathogen detected
Not tested

PANEL
Botrytis

SAMPLE TYPE
3x Leaf

DATE OF RECEIPT
October 14, 2026

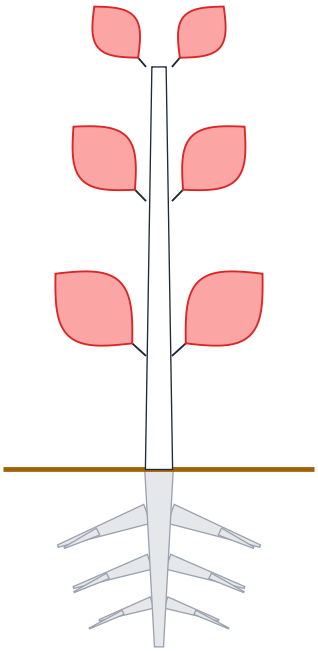
Results

Botrytis	**NOT DETECTED**	No Cq
Internal Control (IC)	**PASS**	Cq 25.80

VT00002

Pineapple Express

PE-B02



No pathogen detected
Pathogen detected
Not tested

PANEL
Botrytis

SAMPLE TYPE
3x Leaf

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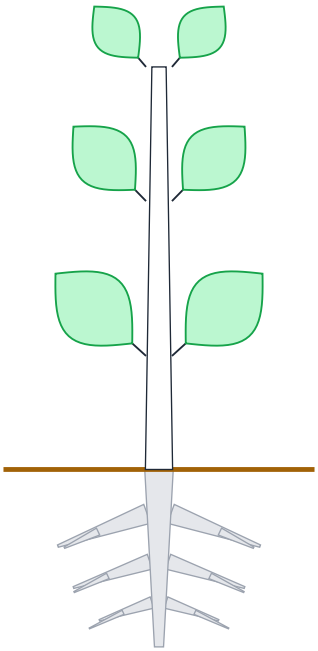
Results

Botrytis	**DETECTED**	Cq 24.20
Internal Control (IC)	**PASS**	Cq 24.90

VT00003

Banana Kush

BK-C03



No pathogen detected
Pathogen detected
Not tested

PANEL
Botrytis

SAMPLE TYPE
3x Leaf

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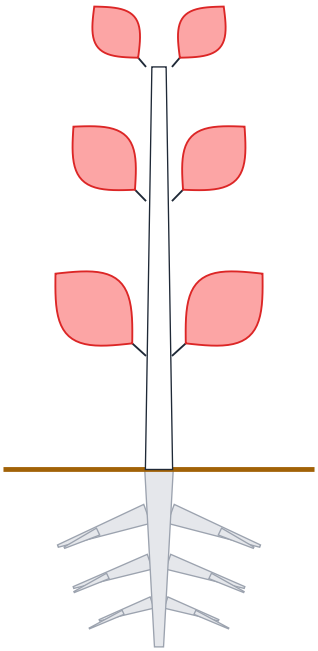
Results

Botrytis	**NOT DETECTED**	No Cq
Internal Control (IC)	**PASS**	Cq 25.10

VT00004

Sunset Sherbet

SS-D04



No pathogen detected
Pathogen detected
Not tested

PANEL
Botrytis

SAMPLE TYPE
3x Leaf

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Results

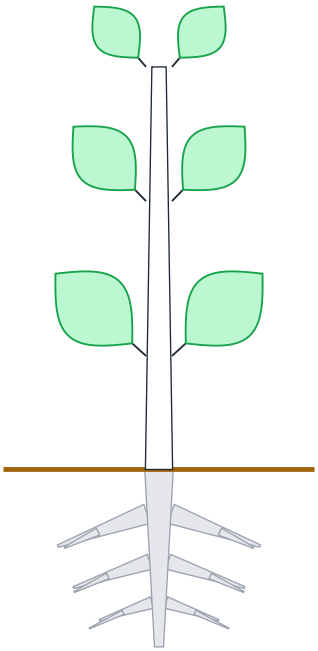
Botrytis	**DETECTED**	Cq 27.60
Internal Control (IC)	**PASS**	Cq 24.40

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VT00005

Strawberry Cough

SC-E05



No pathogen detected
Pathogen detected
Not tested

PANEL
Botrytis

SAMPLE TYPE
3x Leaf

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Results

Botrytis	**NOT DETECTED**	No Cq
Internal Control (IC)	**PASS**	Cq 25.70