



114 Pleasant St  
Southbridge, MA 01550  
(303) 817-7758

Questions? [info@vernebio.com](mailto:info@vernebio.com)  
<https://www.vernebio.com>

## WE-Test Pathogen Testing

**Order Number:** Brothers Grimm Seeds (C44) - Johnstown CO (L1) - Test Order #2

**Sample Collection Date:** Unknown

**Sample Received Date:** 12.07.2022

**Testing Date:** 12.07.2022

### Result Summary

**2** : Number of Samples Submitted

**ALL PASSED**: Quality Control

**0** : Samples Detected Pathogen

### Submitted Samples Summary

Sample ID	Test ID	Sample Info
28	C44L1P28	Genius X Rosetta Stone XX
29	C44L1P29	Cap Jelly X Rosettsa Stone XX

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Nathan T. Johnson, Ph.D.  
CEO & Co-Founder

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Sebastian Mana-Capelli, Ph.D.  
CSO & Co-Founder  
COA Review

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Seth Joubert, B.S.  
Lab Technician



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### Raw CT - qPCR Results

Test ID	Viral Panel*			Fungal Panel				Internal Controls	
	Hplvd	LCV/ AMV/ CCV	TMV/ ToRsV	Fusarium	Botrytis	Powdery Mildew	Pythium	DNA	RNA
C44L1P28 (Supernant)	ND	ND	ND	ND	ND	ND	ND	Pass	Pass
C44L1P28 (pellet)	ND	ND	ND	ND	ND	ND	ND	Pass	Pass
C44L1P29 (Supernant)	ND	ND	ND	ND	ND	ND	ND	Pass	Pass
C44L1P29 (pellet)	ND	ND	ND	ND	ND	ND	ND	Pass	Pass
<b>Spiked in pathogen</b>	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
<b>Negative Control</b>	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

\*ND = Not Detected (Teal), NT = Not Tested (Blue), Detected (Red)

\*\* Values are measured in Cycle Threshold (CT)

\*\*\* Verified through melt curve analysis and comparison to clean tissue culture sample

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## Results Meaning

Nothing detected!

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## **Possible Pathogen Testing**

### **Virus / Viroid Panel**

*Alfalfa Mosaic Virus (AMV)*  
*Cannabis Cryptic Virus (CanCV)*  
*Hop Latent Viroid (HpLVd)*  
*Lettuce Chlorosis Virus (LCV)*  
*Tobacco Mosaic Virus (TMV)*  
*Tomato Ringspot Virus (ToRSV)*

### **Fungal Panel**

*Golovinomyces spadiceus (Powdery Mildew)*  
*Golovinomyces ambrosiae (Powdery Mildew)*  
*Golovinomyces cichoracearum (Powdery Mildew)*  
*Botrytis cinerea and Botryotinia fuckeliana (telomorph) (Botrytis)*  
*Fusarium oxysporum f. sp. cannabis (Fusarium)*  
*Fusarium oxysporum f. sp. vasinfectum (Fusarium)*  
*Pythium Myriotium (Pythium)*  
*Pythium ultimum (Pythium)*  
*Pythium aphanidermatum (Pythium)*