

National Agricultural Genotyping Center

ARAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

1616 Albrecht Blvd N Fargo, ND 58102 TEL: (701) 239-1451 www.genotypingcenter.com

To: Saint Louis Beekeepers SSA

765 Gravois Rd Fenton, MO 63026

Attn: Jane Sueme

REPORT ON THE EXAMINATION OF PHYSICAL SAMPLES

Testing Request: Honey Bee Quantitative Laboratory Case #: 23-0285

Report Date: April 17th, 2023

Description of Submitted Samples:

<u>ltem</u>	<u>Description</u>
1	One (1) glass jar labeled P containing bees
2	One (1) glass jar labeled Q containing bees
3	One (1) glass jar labeled L containing bees
4	One (1) glass jar labeled L2 containing bees
5	One (1) glass jar labeled 13 containing bees
6	One (1) glass jar labeled 20 containing bees
7	One (1) glass jar labeled 82 containing bees
8	One (1) glass jar labeled K2 containing bees

Results/Interpretations/Opinions:

The [†]Honey Bee Quantitative Pathogen Panel was performed on samples, as received, from Items 1 through 8. The results are reported in [†]total target copies/sample and can be viewed on page 2 of this report.

Disposition of Samples:

Items 1 through 8 will be retained and stored by the laboratory for thirty days before final disposition according to NAGC policy.

Report Disposition:

Jane Sueme Saint Louis Beekeepers SSA

National Agricultural Genotyping Center Issuing Authority: Quality Assurance Manager Document ID: Honeybee Quantitative Report Version: 3.8

Date of Issue: 01/18/2023



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Item	ABPV	AFB	BQCV	CBPV	Cme	DWV	EFB	IABPV	KBV	Lpa	LSV1	LSV2	N. apis	N. ceranae	SBPV	SBV	Trop	VDV1
1	-	-	552 Thousand	-	-	-	-	-	-	-	544 Million	20 Million	-	113 Million	-	413 Thousand	-	2 Billion
2	-	-	652 Thousand	-	-	-	-	-	-	-	-	12 Million	-	32 Million	-	694 Thousand	-	4 Million
3	-	-	20 Million	-	-	-	-	-	-	96 Thousand	18 Million	-	-	268 Million	-	377 Thousand	-	2 Billion
4	-	-	114 Thousand	-	-	-	-	-	-	717 Thousand	-	-	-	59 Million	-	1Million	-	24 Million
5	-	-	743 Thousand	-	-	-	-	-	-	-	-	-	-	77 Million	-	502 Thousand	-	4 Million
6	-	-	579 Thousand	-	-	-	-	-	-	-	25 Million	-	-	21Million	-	2 Million	-	30 Million
7	-	-	125 Thousand	-	-	-	-	-	-	-	4 Million	-	-	32 Million	-	101 Thousand	-	45 Million
8	-	-	203 Thousand	-	-	-	-	-	-	2 Million	3 Billion		-	142 Million	-	2 Million		QNS

ABPV: Acute Bee Paralysis Virus

CBPV: Chronic Bee Paralysis Virus

CBPV: Chronic Bee Paralysis Virus

Cme: Crithidia mellificae

DWV-A: Deformed Wing Virus A

EFB: European Foulbrood IABPV: Israli Acute Bee Paralysis Virus KBV: Kashmir Bee Virus Lpa: Lotmaria passim LSV1: Lake Sinai Virus 1 LSV2: Lake Sinai Virus 2

N. apis: Nosema apis N. ceranae: Nosema ceranae SBPV: Slow Bee Paralysis Virus

SBV: Sacbrood Virus Trop: Tropilaelaps spp. VDV1: Varroa Destructor Virus 1 (Deformed Wing Virus B)

[†]The reported pathogen quantities for a sample are an estimate of the true quantity. It should be noted that qPCR will amplify both actively growing organisms, spores, and organisms that have died or are dormant, but their genetic material is still present in the sample and therefore pathogen quantities are often slightly higher than expected for a true infection.

NOTE: For more information regarding estimated pathogen quantities and to compare your results to others, please visit https://genotypingcenter.com/services/bees/quantities

- denotes a "not detected" result for the pathogen tested.

QNS stands for Quantity Not Sufficient. This notation indicates the pathogen was detected, but at levels too low to accurately quantitate.

NT specifies the pathogen was not tested, per request.

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I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Missy Berry Research Analyst

This report shall not be duplicated or distributed, unless in full.

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