

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Bone Matrix Capsules: 180 Count
PRODUCT CODE: 10406BT01
CUSTOMER NAME: Heart & Soil Supplements
MFG. LOT NUMBER: 202592
PKG. LOT NUMBER: 202591
EXPIRATION DATE: 11/2025

CRITICAL CHARACTERISTICS:

Overall Appearance
Color
Capsule Size
Average Capsule Net Weight
Disintegration

SPECIFICATIONS

Capsule w/ off-white pwd fill
Off-white
"00" Gelatin
950 mg - 1100 mg
<30 minutes

RESULTS

Conforms
Conforms
Conforms
1082mg
Pass

ANALYTICAL TESTING:

NIR Identification
Lead
Mercury
Cadmium
Arsenic
Calcium

SPECIFICATIONS:

Compares to Standard
NMT 10 ppm
NMT 10 ppm
NMT 10 ppm
NMT 1 ppm
NLT 750mg/3 capsules

RESULTS:

99.6% Pass
0.227ppm
ND
ND
0.032ppm
762mg/3capsules

MICROBIOLOGICAL TESTING:

TPC (cfu/gm)
Yeast (cfu/gm)
Mold (cfu/gm)
Coliforms (cfu/gm)
E. coli
Salmonella
S. aureus

SPECIFICATIONS:

<10,000
<1,000
<1,000
<100
Negative
Negative
Negative

RESULTS

<10cfu/g
<10cfu/g
<10cfu/g
<10cfu/g
Absent
Absent
Absent

*Validated with methodology and technology to meet AOAC and USP <1223>, <2020>, and <2021> standards.

**Validated with methodology and technology to meet USP <1223>, <2020>, and <2021> standards.

By: _____

Date: 1/20/23



Micro Quality Labs, Inc.

Specializing in Pharmaceutical, Dietary Supplements, Toys and Cosmetics Testing
3125 N. Damon Way • Burbank, California 91505
(818) 845-0070 • Fax: (818) 845-0030
E-Mail: Karine@MicroQualityLabs.com



[REDACTED]
[REDACTED]
[REDACTED]

ANALYTICAL/CHEMICAL CERTIFICATE OF ANALYSIS

Sample Name: BONE MATRIX
Product Code: 10406
Batch/Lot: 204631
MQL Accession: 230321-0108

PO#: N/A
Sample Description: FG
Rush: N/A
Received Date: 03/21/23
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Test Requested:	Test Method Number:	Client Specification:	Results:
Pesticide Screen:		USP Limit Level	
Pesticides	MQLTM-0343 (USP<561>Modified) By GC-MS	N/A	Conforms
Bromophos-methyl	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05ppm	<0.05ppm
Flucythrinate	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05ppm	<0.05ppm
Methoxychlor	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05ppm	<0.05ppm
Acephate	MQLTM-0343 (USP<561>Modified) By GC-MS	0.1mg/kg	<0.1mg/kg
Alachlor	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Aldrin and dieldrin (sum of)	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Azinphos-ethyl	MQLTM-0343 (USP<561>Modified) By GC-MS	0.1mg/kg	<0.1mg/kg
Azinphos-methyl	MQLTM-0343 (USP<561>Modified) By GC-MS	1mg/kg	<1mg/kg
Bromophos-ethyl	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Bromopropylate	MQLTM-0343 (USP<561>Modified) By GC-MS	3mg/kg	<3mg/kg
Chlordane (sum of cis-trans-, and oxychlordane)	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Chlorfenvinphos	MQLTM-0343 (USP<561>Modified) By GC-MS	0.5mg/kg	<0.5mg/kg
Chlorpyrifos -ethyl	MQLTM-0343 (USP<561>Modified) By GC-MS	0.2mg/kg	<0.2mg/kg
Chlorpyrifos -methyl	MQLTM-0343 (USP<561>Modified) By GC-MS	0.1mg/kg	<0.1mg/kg
Chlorthal-dimethyl	MQLTM-0343 (USP<561>Modified) By GC-MS	0.01mg/kg	<0.01mg/kg
Cyfluthrin (sum of)	MQLTM-0343 (USP<561>Modified) By GC-MS	0.1mg/kg	<0.1mg/kg
λ-Cyhalothrin	MQLTM-0343 (USP<561>Modified) By GC-MS	1mg/kg	<1mg/kg



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[Redacted]

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Sample Name: **BONE MATRIX**

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Batch/Lot: 204631

MQL Accession: 230321-0108

PO#: N/A

Sample Description: FG

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Received Date: 03/21/23

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Test Requested:	Test Method Number:	Client Specification:	Results:
Pesticide Screen:		USP Limit Level	
Cypermethrin and isomers (sum of)	MQLTM-0343 (USP<561>Modified) By GC-MS	1mg/kg	<1mg/kg
DDT (sum of o,p'-DDE, p,p'-DDE, o,p'-DDT, p,p'-DDT, o,p'-TDE, and p,p-TDE)	MQLTM-0343 (USP<561>Modified) By GC-MS	1mg/kg	<1mg/kg
Deltamethrin	MQLTM-0343 (USP<561>Modified) By GC-MS	0.5mg/kg	<0.5mg/kg
Diazinon	MQLTM-0343 (USP<561>Modified) By GC-MS	0.5mg/kg	<0.5mg/kg
Dichlofluanid	MQLTM-0343 (USP<561>Modified) By GC-MS	0.1mg/kg	<0.1mg/kg
Dichlorvos	MQLTM-0343 (USP<561>Modified) By GC-MS	1mg/kg	<1mg/kg
Dicofol	MQLTM-0343 (USP<561>Modified) By GC-MS	0.5mg/kg	<0.5mg/kg
Dimethoate and omethoate (sum of)	MQLTM-0343 (USP<561>Modified) By GC-MS	0.1mg/kg	<0.1mg/kg
Endosulfan (sum of isomers and endosulfan sulphate)	MQLTM-0343 (USP<561>Modified) By GC-MS	3mg/kg	<3mg/kg
Endrin	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Ethion	MQLTM-0343 (USP<561>Modified) By GC-MS	2mg/kg	<2mg/kg
Etrimphos	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Fenchlorophos (sum of fenchlorophos and fenchlorophos-oxon)	MQLTM-0343 (USP<561>Modified) By GC-MS	0.1mg/kg	<0.1mg/kg
Fenitrothion	MQLTM-0343 (USP<561>Modified) By GC-MS	0.5mg/kg	<0.5mg/kg
Fenpropathrin	MQLTM-0343 (USP<561>Modified) By GC-MS	0.03mg/kg	<0.03mg/kg
Fensulfothion (sum of fensulfothion, fensulfothion-oxon, fensulfothion-oxonsulfon, and fensulfothion-sulfon)	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Fenthion (sum of fenthion, fenthion-oxon, fenthion-oxon-sulfon, fenthion-oxon-sulfoxid, fenthion-sulfon, and fenthion-sulfoxid)	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg



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ANALYTICAL/CHEMICAL CERTIFICATE OF ANALYSIS

Sample Name: **BONE MATRIX**
Product Code: 10406
Batch/Lot: 204631
MQL Accession: 230321-0108

PO#: N/A
Sample Description: FG
Rush: N/A
Received Date: 03/21/23
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Test Requested:	Test Method Number:	Client Specification:	Results:
Pesticide Screen:		USP Limit Level	
Phosmet	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Piperonyl butoxide	MQLTM-0343 (USP<561>Modified) By GC-MS	3mg/kg	<3mg/kg
Pirimiphos-ethyl	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Pirimiphos-methyl (sum of pirimiphos-methyl and N-desethyl- pirimiphos-methyl)	MQLTM-0343 (USP<561>Modified) By GC-MS	4mg/kg	<4mg/kg
Procymidone	MQLTM-0343 (USP<561>Modified) By GC-MS	0.1mg/kg	<0.1mg/kg
Profenophos	MQLTM-0343 (USP<561>Modified) By GC-MS	0.1mg/kg	<0.1mg/kg
Prothiophos	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Pyrethrums (Cinerin I, Cinerin II, Jasmolin I, Jasmolin II, Pyrethrin I, Pyrethrin II)	MQLTM-0343 (USP<561>Modified) By GC-MS	3ppm	<3ppm
Quinalphos	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Quintozene (sum of quintozene, pentachloraniline, and methyl pentachlorophenyl sulfide)	MQLTM-0343 (USP<561>Modified) By GC-MS	1mg/kg	<1mg/kg
S-421	MQLTM-0343 (USP<561>Modified) By GC-MS	0.02mg/kg	<0.02mg/kg
Tecnazene	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Tetradifon	MQLTM-0343 (USP<561>Modified) By GC-MS	0.3mg/kg	<0.3mg/kg
Vinclozolin	MQLTM-0343 (USP<561>Modified) By GC-MS	0.4mg/kg	<0.4mg/kg



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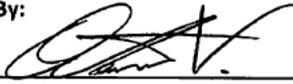
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ANALYTICAL/CHEMICAL CERTIFICATE OF ANALYSIS

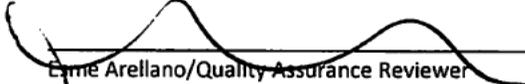
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PO#: N/A
Sample Description: FG
Rush: N/A
Received Date: 03/21/23
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Test Requested:	Test Method:	Specification:	Results:
Glyphosate	MQLTM-1165 By LCMS/MS	Report Results	Not Detected* (Glyphosate is less than 0.01 ppm)

Prepared By: 
Octavio Victor/Document Control Specialist

APR 10 2023
04/10/23

Reviewed By: 
Enme Arellano/Quality Assurance Reviewer

APR 10 2023
04/10/23

Comment: (*) This result is not covered under our A2LA accreditation. The test has been carried out following general compendial methods (USP/NF, EP, JP and AOAC).
Micro Quality Laboratories, Inc. (MQL), is an A2LA ISO 17025 accredited testing laboratory (Certificate Number 3034.01). The requirements of ISO 17025 were followed for the test, results and preparation of this certificate of analysis.
MQL's scope of accreditation may be found on A2LA or MQL websites.

The aforementioned results on this report are representative of the samples submitted and may not be indicative of the entire manufacture, batch, and/or lot. Applicable current GMP's shall always be used when sampling. GLP's shall always be practiced by Micro Quality Labs to ensure the most accurate results.

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