

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Fire Starter Softgels: 180 Count
PRODUCT CODE: 10376BT01
CUSTOMER: Heart & Soil Supplements
MFG. LOT NUMBER: 22200001A-HS / 22202611-HS
PKG. LOT NUMBER: 205721
EXPIRATION DATE: 02/2025

CRITICAL CHARACTERISTICS:

Overall Appearance
Color
Capsule Size
Average Capsule Net Weight
Disintegration Time

SPECIFICATIONS

Clear softgel shell w/ yellowish oily fill
Pale Yellow
10 Oval
717 mg – 833 mg
<30 minutes

RESULTS

Complies
Complies
Complies
750mg
complies

ASSAY:

NIR Identification
Lead
Arsenic
Cadmium
Mercury

SPECIFICATIONS

Conforms to Standard
NMT 10 ppm
NMT 1 ppm
NMT 10 ppm
NMT 10 ppm

RESULTS

94.4%
0.065ppm
0.016ppm
ND
ND

MICROBIOLOGICAL TESTING:

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

SPECIFICATIONS

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

RESULTS

Pass*
Pass*
Pass*
Pass**
Pass**
Pass**
Pass**

*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: 2/28/23



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]

ANALYTICAL/CHEMICAL CERTIFICATE OF ANALYSIS

Sample Name: FIRE STARTER
 Product Code: 10376
 Batch/Lot: 204222
 MQL Accession: 230321-0102

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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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 <i>o,p'</i> -DDE, <i>p,p'</i> -DDE, <i>o,p'</i> -DDT, <i>p,p'</i> -DDT, <i>o,p'</i> -TDE, and <i>p,p'</i> -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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Test Requested:	Test Method Number:	Client Specification:	Results:
Pesticide Screen:	USP Limit Level		
Fenvalerate	MQLTM-0343 (USP<561>Modified) By GC-MS	1.5mg/kg	<1.5mg/kg
Tau-Fluvalinate	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Fonophos	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Heptachlor (sum of heptachlor, os-heptachlorepoide, and trans-heptachlorepoide)	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Hexachlorobenzene	MQLTM-0343 (USP<561>Modified) By GC-MS	0.1mg/kg	<0.1mg/kg
Hexachlorocyclohexane (sum of isomers α , β , δ , and ϵ -)	MQLTM-0343 (USP<561>Modified) By GC-MS	0.3mg/kg	<0.3mg/kg
Lindan (Y-hexachlorocyclohexane)	MQLTM-0343 (USP<561>Modified) By GC-MS	0.6mg/kg	<0.6mg/kg
Malathion and malaoxon (sum of)	MQLTM-0343 (USP<561>Modified) By GC-MS	1mg/kg	<1mg/kg
Mecarbam	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Methacriphos	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Methamidophos	MQLTM-0343 (USP<561>Modified) By GC-MS	0.05mg/kg	<0.05mg/kg
Methidathion	MQLTM-0343 (USP<561>Modified) By GC-MS	0.2mg/kg	<0.2mg/kg
Mirex	MQLTM-0343 (USP<561>Modified) By GC-MS	0.01mg/kg	<0.01mg/kg
Monocrotophos	MQLTM-0343 (USP<561>Modified) By GC-MS	0.1mg/kg	<0.1mg/kg
Parathion-ethyl and Paraoxon-ethyl (sum of)	MQLTM-0343 (USP<561>Modified) By GC-MS	0.5mg/kg	<0.5mg/kg
Parathion-methyl and Paraoxon-methyl (sum of)	MQLTM-0343 (USP<561>Modified) By GC-MS	0.2mg/kg	<0.2mg/kg
Pendimethalin	MQLTM-0343 (USP<561>Modified) By GC-MS	0.1mg/kg	<0.1mg/kg
Pentachloranisol	MQLTM-0343 (USP<561>Modified) By GC-MS	0.01mg/kg	<0.01mg/kg
Permethrin and isomers (sum of)	MQLTM-0343 (USP<561>Modified) By GC-MS	1mg/kg	<1mg/kg
Phosalone	MQLTM-0343 (USP<561>Modified) By GC-MS	0.1mg/kg	<0.1mg/kg



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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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Rush: N/A
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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:

Esma 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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