

Certificate of Analysis

Item: XXXXXXXXXX XXXXXXXXXX	Item description: HEART & SOIL ANIMAL-BASED PROTEIN (30 SERVING)	Lot Number: 0424-001
Retest Period: 2 YEARS	Date of Manufacture: 6/27/2024	
QA Approval / Date: XXXXXXXXXX		

SERVING SIZE: 24 g

SERVINGS PER CONTAINER: 1

Quality Attribute	Specification	Method	Result
Appearance:	Slightly Fluffy, Free-Flowing Powder	Organoleptic	Conforms
Color:	Light Brown to Brown	Organoleptic	Conforms
Odor:	Characteristic	Organoleptic	Characteristic
Flavor:	Characteristic	Organoleptic	Characteristic
Fill Weight:	Range: 720.000 g – 747.200 g/Unit	PD-3010/3020	725.000 g/Unit
Allergens:			
Gluten	Gluten-Free (<20 ppm)	ELISA	<20 ppm (Gluten-Free)
Soy	Soy Free (<5 ppm)	MonoTrace-Soy/MQLTM-0586 By Elisa	<5 ppm (Soy Fee)
Heavy Metals:			
Arsenic (As)	Report ppm	USP 233	<0.01248 ppm
Cadmium (Cd)	Report ppm	USP 233	<0.01248 ppm
Lead (Pb)	Report ppm	USP 233	<0.01248 ppm
Mercury (Hg)	Report ppm	USP 233	<0.01248 ppm
Microbiology:			
Total Aerobic Plate Count	NMT 10,000 CFU/g	AOAC 2015.13	540 CFU/g
Yeast & Mold	NMT 1,000 CFU/g	AOAC 2014.05	<10 CFU/g
Coliforms	NMT 100 CFU/g	AOAC 991.14	<10 CFU/g
<i>Escherichia coli</i>	<10 CFU/g (Absent/g)	AOAC 991.14	<10 CFU/g
<i>Staphylococcus aureus</i>	<10 CFU/g (Absent/g)	AOAC 2003.07	<10 CFU/g
<i>Salmonella</i> spp.	Absent/25g	FDA-BAM Ch. 5	Absent Per 25g
Ingredients:	Whey Protein Concentrate, Bovine Trachea/Scapula Cartilage, Bovine Colostrum Powder.		
Allergen Statement:	Contains: Milk. Although this product may or may not contain one or all of the following, this product is manufactured in a facility that handles milk, soy, egg, tree nuts, fish, and wheat products.		
Storage Conditions:	Store in a cool, dry place away from sunlight.		



Certificate of Analysis

Accession: 11018 **Client:** Heart and Soil Supplements, LLC **Collection Date:**
Product: Animal Based Protein **Received Date:** 1/3/2024 9:00 AM
Product Code: HS-10002-KG **Reported Date:**
Report Status: PRELIMINARY

Analytical

Glyphosate by LCMS Run by FR on 8/21/2024 8:58:36 AM at Location: TAL

SOP/Methodology: LC-MS/MS

Test	Result	Units
Glyphosate	ND	mcg/g

Residual Pesticides Run by FR on 8/21/2024 10:48:37 AM at Location: TAL

SOP/Methodology: TM0004 / LC-MSMS

Test	µg/g	LOD (µg/g)	LOQ (µg/g)
Abamectin	ND	0.0027	0.0114
Acephate	ND	0.0021	0.01
Acequinocyl	ND	0.0273	0.0827
Acetamiprid	ND	0.0013	0.01
Aldicarb	ND	0.0048	0.025
Azoxystrobin	ND	0.0034	0.0103
Bifenazate	ND	0.0022	0.01
Bifenthrin	ND	0.0035	0.049
Boscalid	ND	0.0057	0.025
Captan	ND	0.0342	0.104
Carbaryl	ND	0.0023	0.01
Carbofuran	ND	0.0052	0.0157
Chlorantraniliprole	ND	0.0048	0.0146
Chlordane	ND	0.0293	0.0888
Chlorfenapyr	ND	0.0158	0.05
Chlorpyrifos	ND	0.0025	0.01
Clofentezine	ND	0.0039	0.0117
Coumaphos	ND	0.0018	0.01
Cyfluthrin	ND	0.028	0.0849
Cypermethrin	ND	0.0044	0.051
Daminozide	ND	0.0029	0.01
DDVP (Dichlorvos)	ND	0.0101	0.0306
Diazinon	ND	0.0009	0.01
Dimethoate	ND	0.0025	0.01
Dimethomorph	ND	0.0046	0.0141
Ethoprop(hos)	ND	0.0044	0.0132
Etofenprox	ND	0.0007	0.025
Etoxazole	ND	0.0004	0.025
Fenhexamid	ND	0.0082	0.0248
Fenoxycarb	ND	0.0031	0.025
Fenpyroximate	ND	0.0013	0.01
Fipronil	ND	0.002	0.01
Flonicamid	ND	0.0016	0.01
Fludioxonil	ND	0.0071	0.0214
Hexythiazox	ND	0.0009	0.01
Imazalil	ND	0.0057	0.0173



Certificate of Analysis

Accession: 11018 **Client:** Heart and Soil Supplements, LLC **Collection Date:**
Product: Grass-Fed Whey Protein **Received Date:** 1/3/2024 9:00 AM
Product Code: HS-10002-KG **Reported Date:**
Report Status: PRELIMINARY

Analytical

Test	µg/g	LOD (µg/g)	LOQ (µg/g)
Imidacloprid	ND	0.0024	0.01
Kresoxim-methyl	ND	0.0073	0.022
Malathion	ND	0.0027	0.01
Metalaxyl	ND	0.0017	0.01
Methiocarb	ND	0.0027	0.01
Methomyl	ND	0.0027	0.01
Methyl parathion	ND	0.0146	0.05
Mevinphos	ND	0.0049	0.0212
Myclobutanil	ND	0.0326	0.0988
Naled	ND	0.0029	0.01
Oxamyl	ND	0.0016	0.01
Pacllobutrazol	ND	0.0057	0.0174
Pentachloronitrobnzn	ND	0.0295	0.0894
Permethrins	ND	0.029	0.092
Phosmet	ND	0.0036	0.025
Piperonylbutoxide	ND	0.0021	0.01
Prallethrin	ND	0.0038	0.025
Propiconazole	ND	0.0122	0.037
Propoxur	ND	0.0017	0.01
Pyrethrin	ND	0.0154	0.0465
Pyridaben	ND	0.0005	0.01
Spinetoram	ND	0.0001	0.009
Spinosad	ND	0.0001	0.009
Spiromesifen	ND	0.003	0.025
Spirotetramat	ND	0.0023	0.01
Spiroxamine	ND	0.0022	0.01
Tebuconazole	ND	0.0021	0.01
Thiacloprid	ND	0.0011	0.01
Thiamethoxam	ND	0.0008	0.01
Trifloxystrobin	ND	0.0012	0.01

Analytical - Elemental Analyses

Heavy Metals (As, Cd, Hg and Pb) Run by BCA on 8/21/2024 11:55:22 AM at Location: TAL

SOP/Methodology: USP 233

Test	Result	LOD (Result)	LOQ (Result)	Units	Specification	Status
Arsenic (As)	< LOQ	0.003773	0.01131	ppm	Unspecified	N/A
Cadmium (Cd)	ND	0.003773	0.01131	ppm	Unspecified	N/A
Lead (Pb)	0.05682	0.003773	0.01131	ppm	Unspecified	N/A
Mercury (Hg)	ND	0.003773	0.01131	ppm	Unspecified	N/A

*** Pending ***



Twin Arbor Analytical

Your Quality Control Lab

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Certificate of Analysis

Accession: 11018	Client: Heart and Soil Supplements, LLC	Collection Date:
Product: Grass-Fed Whey Protein		Received Date: 1/3/2024 9:00 AM
Product Code: HS-10002-KG		Reported Date:
		Report Status: PRELIMINARY

Reviewed By: 
 Richmond, Forrest - Analytical Director

Panel Name: Glyphosate by LCMS	Approved: 8/21/2024 12:22 PM
Panel Name: Residual Pesticides	Approved: 8/21/2024 12:22 PM
Panel Name: Heavy Metals (As, Cd, Hg and Pb)	Approved: 8/21/2024 12:22 PM

ND = Not Detected | LOD = Limit of Detection | LOQ = Limit of Quantification

Product details are provided by the Client and are not verified by the laboratory.
Not all methods are ISO17025:2017 accredited.