



## Certificate of Analysis

<b>Product Name:</b> Multi Collagen Ultra - Vanilla Chai - 30srv	<b>Manufacturing Date:</b> 03.30.2020
<b>Formula Code:</b> MUCUPOVACH030	
<b>Finished Lot Code:</b> 060862011A	
<b>Best Buy Date:</b> 2 years	

### Product Physical Specifications

Items	Specification	Method	Results
Amount per serving:	17g	Analytical Scale	Pass
Odor:	Vanilla and Spice	Organoleptic	Pass
Color:	White to slight yellow tint	Organoleptic	Pass
Taste in 8oz Water	Compares to standard	Organoleptic	Pass
Aroma in 8oz Water	Compares to standard	Organoleptic	Pass
Appearance in 8oz Water	Compares to standard	Organoleptic	Pass

### Total Metals:

Items	Specification	Method	Results
Arsenic	≤10mcg	MQLTM-0278 By 8viCP-MS	B/LOQ
Cadmium	≤4.1mcg	MQLTM-0278 By 8viCP-MS	B/LOQ
Lead	≤0.5 mcg	MQLTM-0278 By 8viCP-MS	0.173mcg / serving
Mercury	≤2mcg	MQLTM-0278 By 8viCP-MS	B/LOQ

### Microbiological:

Items	Specification	Method	Results
Total Plate count:	≤10,000 CFU/g	TM-01 (Modified USP61)	3.9x10 <sup>3</sup> CFU/g
Yeast/Mold	≤1,000 CFU/g	TM-01 (Modified USP61)	6.6x10 <sup>2</sup> CFU/g
Total Colliforms	≤100 CFU/g	TM-01A (Modified USP62)	< 10 <sup>2</sup> CFU/g
E. coli	Negative / 10g	TM-01A (Modified USP62)	Absent
Salmonella	Negative / 375g	TM-01A (Modified USP62)	Absent
Staphylococcus aureus	Negative/10g	TM-01A (Modified USP62)	Absent

### Analytical:

Items	Specification	Method	Results
Protein	≥ 9g / serving	Kjeltec Method	11.14g / serving
Gluten Allergen	< 20 ppm	Elisa	< 3 ppm
%Moisture	< 8%	USP 42 Modified	4.10%
Delta 9 Tetrahydrocannabinol	≤ 0.45 mg / serving	HPLC	Not Detected
Cannabidiol	≥ 5 mg / serving	HPLC	5.26mg / serving



**Terpenoids:**

Analyte	%	mg/g	LOD mg/g	LOQ mg/g
α-Bisabolol	ND	ND	0.0155	0.0517
endo-Borneol	ND	ND	0.00715	0.0238
Camphene	ND	ND	0.00689	0.0229
Camphor	ND	ND	0.0091	0.0304
β-Carene	ND	ND	0.00778	0.0259
Caryophyllene Oxide	ND	ND	0.0205	0.0682
β-Caryophyllene	ND	ND	0.0108	0.036
α-Cedrene	ND	ND	0.00673	0.0225
Cedrol	ND	ND	0.0151	0.0504
Eucalyptol	ND	ND	0.00773	0.0258
β-Farnesene	ND	ND	0.0141	0.0471
Fenchol	ND	ND	0.00836	0.0278
Fenchone	ND	ND	0.00904	0.0301
Geraniol	ND	ND	0.0154	0.0513
Geranyl Acetate	ND	ND	0.013	0.0434
Guaiol	ND	ND	0.0237	0.0791
α-Humulene	ND	ND	0.00752	0.025
Isoborneol	ND	ND	0.00915	0.0305
Isopulegol	ND	ND	0.0129	0.0432
Limonene	ND	ND	0.00447	0.0149
Linalool	ND	ND	0.0123	0.0408
Menthol	ND	ND	0.00952	0.0317
β-Myrcene	ND	ND	0.00557	0.0185
Nerol	ND	ND	0.0114	0.0378
cis-Nerolidol	ND	ND	0.00815	0.0272
trans-Nerolidol	ND	ND	0.0192	0.0642
cis-β-Ocimene	ND	ND	0.00647	0.0215
trans-β-Ocimene	ND	ND	0.0121	0.0402
α-Phellandrene	ND	ND	0.00757	0.0252
α-Pinene	ND	ND	0.00626	0.0208
β-Pinene	ND	ND	0.00589	0.0197
Pulegone	ND	ND	0.00847	0.0282
Sabinene	ND	ND	0.00431	0.0143
Sabinene Hydrate	ND	ND	0.00678	0.0226
α-Terpinene	ND	ND	0.00547	0.0183
γ-Terpinene	ND	ND	0.00626	0.0208
Terpineol	ND	ND	0.00899	0.03
Terpinolene	ND	ND	0.0165	0.055
Valencene	ND	ND	0.0127	0.0423
Total	0.0177	0.177		

**Pesticides**

Pesticides	Action Level (E> m)	Results	LOQ (ppm)	LOD (ppm)
ABAMECTIN B1A	0.500	N/D	0.005	0.001
ACEPHATE	0.400	N/D	0.001	0.001
ACEQUINOCYL	2.000	N/D	0.001	0.001
ACETAMIPRID	0.200	N/D	0.005	0.001
ALDICARB	0.400	N/D	0.005	0.001
AZOXYSTROBIN	0.200	N/D	0.001	0.001
BIFENAZATE	0.200	N/D	0.005	0.001
BIFENTHRIN	3.000	N/D	0.005	0.001
BOSCALID	0.400	N/D	0.005	0.001
CARBARYL	0.200	N/D	0.003	0.001
CARBOFURAN	0.200	N/D	0.001	0.001
CHLORANTRANILIPROLE	0.200	N/D	0.005	0.005
CHLORPYRIFOS	0.200	N/D	0.001	0.001
CLOFENTEZINE	0.200	N/D	0.001	0.001
DAMINOZIDE	1.000	N/D	0.005	0.001
DIAZINON	0.200	N/D	0.001	0.001
DICHLORVOS	1.000	N/D	0.005	0.001
DIMETHOATE	0.200	N/D	0.001	0.001
ETHOPROPHOS	0.200	N/D	0.001	0.001
ETOFENPROX	0.400	N/D	0.001	0.001
ETOXAZOLE	0.200	N/D	0.010	0.005
FENOXYCARB	0.200	N/D	0.005	0.001
FENPYROXIMATE	0.400	N/D	0.001	0.001
FIPRONIL	0.400	N/D	0.003	0.001
FLONICAMID	1.000	N/D	0.025	0.010
FLUDIOXONIL	0.400	N/D	0.003	0.001
GLYPHOSATE		N/D	0.400	0.250
HEXYTHIAZOX	1.000	N/D	0.005	0.001
IMAZALIL	0.200	N/D	0.005	0.001
IMIDACLOPRID	0.400	N/D	0.005	0.001
KRESOXIM-METHYL	0.400	N/D	0.010	0.005
MALATHION	0.200	N/D	0.005	0.001
METALAXYL	0.200	N/D	0.001	0.001
METHIOCARB	0.200	N/D	0.005	0.001
METHOMYL	0.400	N/D	0.001	0.001
MYCLOBUTANIL	0.200	N/D	0.005	0.001
NALED	0.500	N/D	0.005	0.001
OXAMYL	1.000	N/D	0.001	0.001
PACLOBUTRAZOL	0.400	N/D	0.005	0.001
PERMETHRINS	0.200	N/D	0.005	0.001
PHOSMET	0.200	N/D	0.005	0.001
PIPERONYL BUTOXIDE	2.000	N/D	0.005	0.001
PRALLETHRIN	0.200	N/D	0.005	0.005
PROPICONAZOLE	0.400	N/D	0.010	0.005
PROPOXUR	0.200	N/D	0.001	0.001
PYRETHRINS. (PYRETHRIN I)	0.001	N/D	0.005	0.005
PYRIDABEN	0.200	N/D	0.005	0.001



**Pesticides (cont.)**

Pesticides	Action Level (E> m)	Results	LOQ (ppm)	LOD (ppm)
SPINETORAM	3.000	N/D	0.001	0.001
SPINOSAD	0.200	N/D	0.001	0.001
SPIROMESIFEN	0.200	N/D	0.005	0.001
SPIROTETRAMAT	0.200	N/D	0.001	0.001
SPIROXAMINE	0.400	N/D	0.001	0.001
TEBUCONAZOLE	0.400	N/D	0.005	0.001
THIACLOPRID	0.200	N/D	0.001	0.001
THIAMETHOXAM	0.200	N/D	0.001	0.001
TRIFLOXYSTROBIN	0.200	N/D	0.001	0.001

Signatures:

**Megi Qenani**

4/13/2020

Megi Qenani  
Director of Research & Quality Control

Date

*Matthew Feist*

04.13.2020

Matthew Feist  
Quality Assurance Supervisor

Date