



SILLIKER, Inc.

Crete, IL Laboratory

3600 Eagle Nest Drive, North Building, Crete, IL 60417

Tel. 877-777-6375 Fax. 312-729-1320

Email: supplementcare3@mxns.com

CERTIFICATE OF ANALYSIS

COA No:	CHG-49581349-0
Supersedes:	CHG-49567044-0
COA Date	8/4/25
Page 1 of 4	

TO:

To. Kevin Appelbaum
Founder & CEO
Back Bend Labs, LLC
2900 Northwest Clearwater Drive
Bend, OR 97703

Received From:	Bend, OR
Received Date:	7/10/25
Location of Test: (except where noted) Crete, IL	

Laboratory ID: 444255526 **Condition Rec'd:** NORMAL **Temp Rec'd (°C):** 24
Desc. 1: Meal Replacement

Nutrition - Mandatory

NUTRITIONAL ANALYSIS

Serving Size: 70.3 g

Household Measure: 70.264 g

Analytes	Units	Results Per 100g	Amount Per Serving	Test Date	Test Location
Calories		413.8	290.7	08/04/2025	
Total Fat	g	12.19	8.56	07/24/2025	
Monounsaturated Fat	g	3.80	2.67	08/04/2025	
Polyunsaturated Fat	g	5.92	4.16	08/04/2025	
Saturated Fat	g	1.93	1.36	08/04/2025	
Trans Fat	g	<0.10	<0.07	08/04/2025	
Cholesterol	mg	<0.8	<0.6	07/30/2025	
Sodium	mg	695	488	07/19/2025	
Potassium	mg	891	626	07/19/2025	
Total Carbohydrate	g	38.8	27.3	08/04/2025	
Dietary Fiber‡	g	15.69	11.02	07/24/2025	
Sugars‡‡	g	18.68	13.12	07/23/2025	
Fructose	g	1.5		08/04/2025	
Glucose	g	4.89		08/04/2025	
Lactose	g	<0.25		08/04/2025	
Maltose	g	3.02		08/04/2025	
Sucrose	g	9.23		08/04/2025	
Protein (F=6.25)	g	37.23	26.16	07/24/2025	
Calcium	mg	437	307	07/19/2025	
Iron	mg	29.2	20.5	07/19/2025	
Moisture	g	5.77	4.05	07/22/2025	
Ash	g	6.00	4.22	07/24/2025	
Vitamin D2	mcg	19.06	13.39	08/04/2025	

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Analytes	Units	Results Per 100g	Amount Per Serving	Test Date	Test Location
Vitamin D3	mcg	<0.13	<0.09	08/04/2025	
Total Vitamin D	mcg	19.10	13.42	07/25/2025	

‡ This Total Dietary Fiber measurement may include polysaccharides not currently recognized as dietary fiber by FDA.

Clients must review their formulas and ingredients to determine fibers not currently recognized as fiber. Clients may need to consult with their fiber manufacturers to determine the regulatory status of their fiber.

‡‡ The reported Total Sugars value is the sum of all naturally occurring and added sugars. Quantifying added sugars must be separately performed using food formulas, production records, and ingredient specifications.

Additional Testing

Analyte	Result	Units	Test Approval Date	Test Location
* Ash	6.00	% (w/w)	07/24/2025	
Omega 3 Fatty Acids	2.35	g/100g	07/24/2025	
Omega 6 Fatty Acids	3.57	g/100g	07/24/2025	
Omega 9 Fatty Acids	3.79	g/100g	07/24/2025	

† Test specification and/or reported name modified at the request of the client: Nutrition - Mandatory, Serving Size

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Method References

Test	Method Reference	Internal Reference
* Ash	AOAC 945.46	QA-0225-2001
* Calcium	AOAC 984.27 (mod.)	QA-9901-1146
* Cholesterol	AOAC 994.10 (mod)	QA-9901-1863/Internl
* Dietary Fiber	AOAC 991.43 (Mod.)	QA-0220-4410
* Iron	AOAC 984.27 (mod.)	QA-9901-1146
* Moisture	AOAC 926.08	QA-0200-4101
* Potassium	AOAC 984.27 (mod.)	QA-9901-1146
* Sodium	AOAC 984.27 (mod.)	QA-9901-1146
* Sugars	AOAC 980.13	SL-0235-4631
* Total Fat	AOAC 996.06 (mod)	QA-0210-4221
Calories	Calculation	
Protein	AOAC 992.23	QA-9901-2200
Total Carbohydrate	Calculation	
Total Vitamin D	AOAC 2016.05 Mod.	
Ash	AOAC 945.46	QA-0225-2001
Fat by Fatty Acid Profile	AOAC 996.06 (mod)	QA-0210-4221
Omega 3 Fatty Acids	Calculation	
Omega 6 Fatty Acids	Calculation	
Omega 9 Fatty Acids	Calculation	

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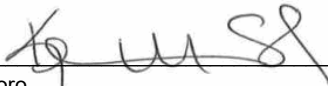
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Kern Storo Sr. Laboratory Director

I Customer supplied information

* ISO17025 Accredited Analysis

† Indicates reason for COA amendment when applicable

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TO:

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2900 Northwest Clearwater Drive

Bend, OR 97703

Received From:	Bend, OR
Received Date:	7/10/25

Location of Test: (except where noted) Crete, IL

Analytical Results

Laboratory ID:	444258628	Condition Rec'd:	NORMAL	Temp Rec'd (°C):	24
Desc. 1:			Meal Replacement		

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Test Date</u>	<u>Loc.</u>
- Defined Dosage or Serving Size			Client Provided	8/8/25	
Client provided weight	70.264	g			
Defined Dose or Serving	70.264	g			
- Defined Dosage or Serving Size	70.264	g	Client Provided	8/8/25	BRN
Amino Acids Complete			USDA MSS2 (1993)	8/8/25	
Aspartic Acid	2.33	g/dose			
Threonine	0.76	g/dose			
Serine	1.11	g/dose			
Glutamic Acid	3.66	g/dose			
Glycine	0.94	g/dose			
Alanine	0.94	g/dose			
Valine	0.93	g/dose			
Methionine	0.28	g/dose			
Isoleucine	0.80	g/dose			
Leucine	1.55	g/dose			
Tyrosine	0.67	g/dose			
Phenylalanine	1.12	g/dose			
Lysine	1.31	g/dose			
Histidine	0.51	g/dose			
Arginine	2.07	g/dose			
Proline	1.19	g/dose			
Hydroxyproline	<0.007	g/dose			
Cysteine	0.34	g/dose			
Tryptophan	0.24	g/dose			
Total Amino Acids	20.76	g/dose			
* Beta Carotene			CIFST J 1982 15:16	8/8/25	
Beta Carotene	35.6	mcg RAE/dose			

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Analytical Results

Laboratory ID: 444258628 Condition Rec'd: NORMAL Temp Rec'd (°C): 24
Desc. 1: Meal Replacement

Analyte	Result	Units	Method Reference	Test Date	Loc.
B-Carotene.	50.7	mcg RAE/100 g			
Biotin (Microbiological Assay, VitaFast)			AOAC 960.46 & Kit	8/8/25	
Biotin (mg per dose)	0.022	mg/dose			
Biotin (as ug/100g)	31.00	mcg/100g			
Biotin (µg per dose)	21.80	mcg/dose			
Caffeine	34.2	mg/dose	JLC, 12, (1989)	8/11/25	BRN
Carotenoids			JFS 75:C55(2010)	8/8/25	
alpha-Carotene	27	mcg/dose			
beta-Cryptoxanthin	120	mcg/dose			
alpha-Carotene as RAE	1.1	mcg RAE/dose			
beta-Cryptoxanthin as RAE	5.00	mcg RAE/dose			
Choline Bitartrate			Internal HPLC H090	8/8/25	BRN
Choline	23.8	mg/dose			
ID	ID based on assay	-			
-	-	-			
Folic Acid			USP/NF Modified	8/11/25	BRN
Folic Acid	183	mcg/dose			
-	-	-			
* ICP MS Full Mineral Screen			AOAC2015.01Mod<2232>	8/8/25	
Arsenic	0.01	mg/dose			
Zinc	11.10	mg/dose			
Cadmium	0.006	mg/dose			
Calcium	337.97	mg/dose			
Chromium	0.04	mg/dose			
Copper	1.25	mg/dose			
Iron	8.08	mg/dose			
Lead	0.002	mg/dose			

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Laboratory ID:	444258628	Condition Rec'd:	NORMAL	Temp Rec'd (°C):	24
Desc. 1:			Meal Replacement		

Analyte	Result	Units	Method Reference	Test Date	Loc.
Magnesium	184.79	mg/dose			
Manganese	5.88	mg/dose			
Mercury	<0.0004	mg/dose			
Molybdenum	0.01	mg/dose			
Phosphorus	581.08	mg/dose			
Selenium	0.05	mg/dose			
Iodine	126	mcg/dose	Mod AOAC 2012.15	8/8/25	BRN
Niacin	10.6	mg/dose	USP/NF Modified	8/11/25	BRN
Pantothenic Acid (Vitamin B5)			USP/NF Modified	8/11/25	BRN
Pantothenic Acid (Vitamin B5)	4.48	mg/dose			
-	-	-			
Polyphenols	1.00	g/dose	UV Spectrophotometer	8/8/25	BRN
Riboflavin	1.00	mg/dose	AOAC 970.65	8/15/25	
Thiamine	1.73	mg/dose	AOAC 942.23	8/8/25	
Total Vitamin B12			AOAC 960.46 & Kit	8/8/25	
Vitamin B12 (µg per dose)	1.24	mcg/dose			
Vitamin B12 (mg per dose)	0.001	mg/dose			
Vitamin B6			USP/NF Modified	8/11/25	BRN
Pyridoxyl Phosphate	0.687	mg/dose			
-	-	-			
* Vitamin C - HPLC	55.6	mg/dose	AOAC 967.22 (mod)	8/8/25	
Vitamin E			USP/NF Modified	8/11/25	BRN
α-Tocopherol	5.06	mg/dose			
-	-	-			
Vitamin K1			USP/NF Modified	8/8/25	BRN
Phytonadione (Phylloquinone)	179	mcg/dose			

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<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Test Date</u>	<u>Loc.</u>
Vitamin K1	179	mcg/dose			
-	-	-			

† The results were modified to reflect the correct value.: Riboflavin


Kern Storo

Sr. Laboratory Director

Noted Test Locations: BRN-Silliker Canada Co. Ltd., Burnaby Laboratory, 106-8255 North Fraser Way, Burnaby, BC V3N 0B9

I Customer supplied information * ISO17025 Accredited Analysis † Indicates reason for COA amendment when applicable

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