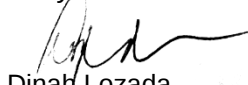


SEMI-REFINED CARRAGEENAN PCP/ CCP MONITORING PLAN SUMMARY

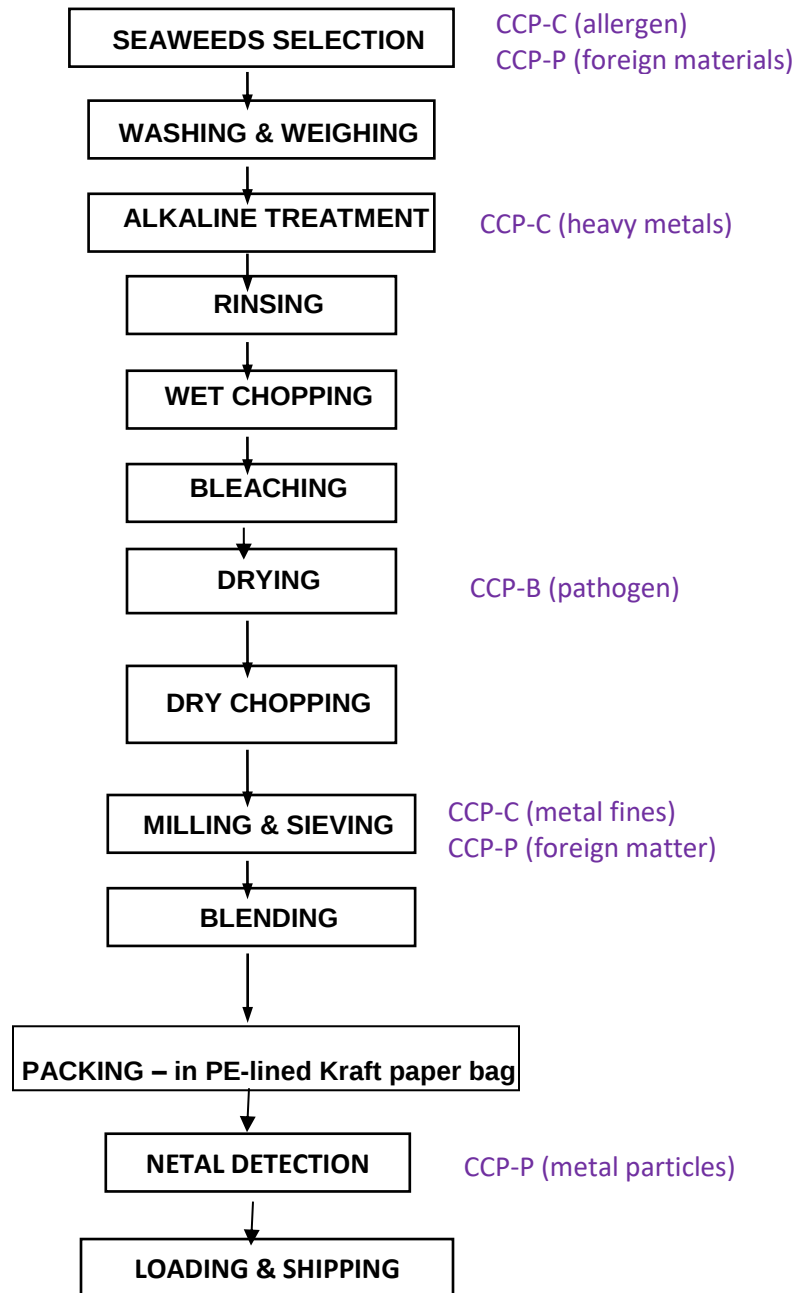
PCP/ CCP	PROCESS STEP	IDENTIFIED HAZARD	CRITICAL LIMIT	MONITORING FREQUENCY
PCP/ CCP- C1 PCP/ CCP- P1	Sorting of raw seaweeds	Chemical- Allergen Physical- Foreign matter from seaweeds	Absence of crustaceans and mollusks after sorting	Every 25kg sorted raw seaweeds per sorting group per lot
PCP/ CCP-C2	Alkali Treatment	Chemical- Heavy Metals	2.8%KOH min.	Before every alkali treatment/ cooking
PCP/ CCP- B	Apron Drying	Biological- E. coli	Drying Temperature= Spinosum: 85-105°C Drying time= 50-60 minutes	Every hour per dryer
PCP/ CCP-C3	Magnetizing	Chemical- Metal Fines	Magnet Strength= 8000 Gauss min.	Once a week per mill
PCP/ CCP-P2	Sieving of Milled Powder	Physical- Foreign Matter (plastic ties)	Use of appropriate screen (20, 30, 40, 60, 80, 100, 150, 200 mesh)	Per batch of milled powder
PCP/ CCP-P3	Sieving of Final Blended Powder	Physical- Foreign Matter	Use of appropriate screen (20, 30, 40, 60, 80, 100, 150 mesh)	After final blending per lot
PCP/ CCP-P4	Metal Detection	Physical- Metallic Pieces	SUS <2.0mm, Ferrous <2.0mm, Non-Ferrous <2.0mm	Every bag

Effective Date: February 10, 2025

Prepared by:


Dinah Lozada
Food Safety Team Leader
Issue Date: February 20, 2025

FOOD GRADE SEMI-REFINED CARRAGEENAN PROCESS FLOW DIAGRAM



Prepared by:

Effective Date: February 10, 2025


Dinah Lozada
Food Safety Team Leader/ Technical Director
Issue Date: February 20, 2025

GLOBAL FOOD ALLERGEN STATEMENT

Ingredi.com certifies to the best of our knowledge that this product contains the following allergic or sensitizing components as indicated on the chart below. It is also indicated if the named ingredient is produced on shared equipment with other allergens or sensitizers.

11527-04 CARRAGEENAN S-100 - SIGC

Allergic Food Source or it's Derivative	Does this Ingredient Contain any Foods Listed in Column 1	Provide the Specific Food Source (Ex. Soy, lecithin, peanut extract, fish gelatin, etc.)	Is this Ingredient on Shared Equipment with other Products Containing Foods from Column 1	Is this Ingredient Manufactured in a Facility with other Products Containing Foods from Column 1
	Yes / No	Common or Unusual Name	Yes / No	Yes / No
Crustaceans, shellfish and products thereof	NO		NO	YES
Eggs and products thereof	NO		NO	NO
Fish and products thereof	NO		NO	NO
Milk and products thereof	NO		NO	NO
Peanuts and products thereof	NO		NO	NO
Soybeans and products thereof	NO		NO	NO
Tree nuts and products thereof	NO		NO	NO
Wheat and products thereof ¹	NO		NO	NO
Cereals containing gluten and products thereof	NO		NO	NO

Buckwheat and products thereof	NO		NO	NO
Celery and products thereof	NO		NO	NO
Lupin and products thereof	NO		NO	NO
Mollusks and products thereof	NO		NO	YES
Mustard and products thereof	NO		NO	NO
Sesame seeds and products thereof	NO		NO	NO
Sulfur dioxide and sulfites at concentrations of more than 10ppm expressed as SO ₂	NO		NO	NO
Bee Pollen/Propolis and products thereof	NO		NO	NO
Royal Jelly and products thereof	NO		NO	NO
Peach and products thereof	NO		NO	NO
Tomato and products thereof	NO		NO	NO
Pork and products thereof	NO		NO	NO
Beef and products thereof	NO		NO	NO
Chicken and products thereof	NO		NO	NO
Squid and products thereof	NO		NO	NO
Mango and products thereof	NO		NO	NO

NUTRITIONAL STATEMENT

UNITED STATES 21 CFR 101.9

Ingredi.com certifies to the best of our knowledge that this product has the following nutritional composition per 100g, as reported below.

11527-04 CARRAGEENAN S-100 - SIGC

Calories	270	Calculated
Total Fat:	0 g	Analyzed
Saturated Fat:	0 g	Analyzed
Trans Fat:	0 g	Analyzed
Cholesterol:	0 mg	Analyzed
Sodium:	1000 mg	Analyzed
Total Carbohydrates:	66 g	Calculated
Dietary Fiber:	0 g	Calculated
Total Sugars:	0 g	Calculated
Added Sugars:	0 g	Calculated
Protein:	1 g	Analyzed
Vitamin D:	0 mcg	Analyzed
Calcium:	4300 mg	Analyzed
Iron:	10 mg	Analyzed
Potassium:	1800 mg	Analyzed
Moisture:	10 g	Analyzed
Ash:	23 g	Analyzed

11527-04 CARRAGEENAN S-100

CERTIFICATE OF ANALYSIS

LOT# 240430-B

Product Details

MANUFACTURE DATE	4/30/2024	SHELF LIFE (Days)	730
ANALYSIS DATE	5/22/2024	RECOMMENDED RETEST DATE	4/29/2026

Specifications

Test / Property	Specification	Result
0.5% Milk Gel Strength	20 – 60 g/cm ²	39 g/cm ²
1.5% Water Viscosity	20 – 60 cps	26 cps
Powder Color	Cream to Light Tan	Cream
Powder Particle Size	≥ 90% Pass Through 80 Mesh	99%
Moisture	≤ 12%	5.8%
pH	8.0 – 11.0	9.8
Total Plate Count	≤ 5000 cfu/g	2200 cfu/g
Molds and Yeasts	≤ 100 cfu/g	20 cfu/g
Coliforms	≤ 10 cfu/g	Conforms
E. Coli	Negative	Conforms
Salmonella	Negative in 25g	Conforms
Staphylococcus aureus	Negative	Conforms
Listeria monocytogenes	Negative	Conforms

Stability and Storage Conditions

Store sealed bag in a cool, dry environment

Comment

Manufactured by: Shemberg – Mandaue City, Cebu, Philippines

Colleen Raven

Colleen Raven
Quality Manager

Issue Date: March 19, 2025

Page: 1 of 1

Revision Date: October 16, 2024

Revision #: 0

HEAVY METAL STATEMENT

Ingredi.com certifies to the best of our knowledge that the following product conforms to the FCC heavy metal limits as listed below.

11527-04 CARRAGEENAN S-100 - SIGC

Arsenic (As)	<3ppm
Cadmium (Cd)	<2ppm
Lead (Pb)	<5ppm
Mercury (Hg)	<1ppm



CERTIFICATE OF ORIGIN

Ingredi.com certifies to the best of our knowledge that this product is produced and imported from the following country(ies):

11527-04 CARRAGEENAN S-100 - SIGC

Country of manufacture	Philippines
Country of import	Philippines



VEGAN SUITABILITY STATEMENT

Ingredi.com certifies to the best of our knowledge that the following product is suitable for vegans. This material was not tested on animals and is not derived nor processed from animal or animal derived ingredients, including eggs, shellfish, fish, bees and dairy.

11527-04 CARRAGEENAN S-100 - SIGC

DEFINITION

Vegan – a strict vegetarian who does not consume or use any products derived from animals such as meat, eggs, bees or dairy.



BIOENGINEERED FOOD DISCLOSURE STATEMENT

7 CFR PART 66

Ingredi.com certifies to the best of our knowledge that the following product does not contain any bioengineered components as defined by the United States Department of Agriculture (USDA).

11527-04 CARRAGEENAN S-100 - SIGC



FOOD ADDITIVE COMPLIANCE STATEMENT

UNITED STATES 21 CFR PART 172

Ingredi.com certifies to the best of our knowledge that the following product may be used as a food additive in accordance with the prescribed conditions detailed in section 172.620 of the United States Code of Federal Regulations.

11527-04 CARRAGEENAN S-100 - SIGC



GLUTEN FREE STATEMENT

UNITED STATES 21 CFR 101.91

Ingredi.com certifies to the best of our knowledge that the following product does not contain gluten according to requirements defined by the US Food and Drug Administration (FDA). Any unavoidable traces of gluten are <20 ppm, the manufacturing process has been evaluated for cross-contact contamination and any fermented hydrolyzed products are distilled.

11527-04 CARRAGEENAN S-100 - SIGC



ORGANIC STATEMENT – NON-AGRICULTURAL

UNITED STATES 7 CFR 205

Ingredi.com certifies to the best of our knowledge that this product is found on the Natural Organic Program (NOP) listed, implemented by the United States Department of Agriculture. This substance may be used as an ingredient in or on processed products labeled as “organic” or “made with organic” according to 7 U.S.C. 6502(21).

11527-04 CARRAGEENAN S-100 - SIGC



NATURAL STATEMENT

UNITED STATES 21 CFR 101.22

Tilley Distribution certifies to the best of our knowledge that the following product does not contain any artificial flavor or artificial flavoring as defined by the Regulation.

11527-04 CARRAGEENAN S-100 - SIGC



TILLEY
DISTRIBUTION

Issue Date: October 30, 2024
Page: 1 of 1

Revision Date: July 11, 2024
Revision #: 0

CONTINUING GUARANTEE STATEMENT

UNITED STATES FOOD, DRUG AND COSMETIC ACT SECTION 404 AND 505

Tilley Distribution guarantees each shipment or other delivery of the substance listed below, hereafter made by the undersigned to you, or on your order, or to or on the order of any subsidiary or affiliated company of yours, as of the date of each shipment or delivery to be, on such date, not adulterated or misbranded within the meaning of the Federal Food, Drug and Cosmetic Act, and not an article which may not, under the provisions of Section 404 or 505 of the Act, be introduced into interstate commerce and to be not adulterated or misbranded within the meaning of the statutes of any state of the United States in which the definitions of adulteration and misbranding are substantially the same as set forth under the Federal Act. This guarantee applies only to the following articles you purchase or may receive for evaluation.

11527-04 CARRAGEENAN S-100 - SIGC

Tilley Distribution further agrees that the above guarantee shall apply to all shipments or other deliveries of these articles to you hereafter until revoked in writing or until three (3) years from the date hereof, whichever first occurs.

Issue Date: October 30, 2024
Page: 1 of 1

Revision Date: July 1, 2024
Revision #: 0

Certificate

Standard

Global Standard Food Safety

Issue 9, August 2022

Certificate Registr. No.

01 183 1934956

Certificate Holder:

Shemberg Ingredients and Gums Corporation

S.E Jayme St., Paknaan,
Mandaue City, Cebu, 6014
Philippines

Scope:

Seaweeds Treatment, Drying, Milling and Blending of Food-Grade Carrageenan and Carrageenan Blend Products, Packed in Kraft Bag or PP bag with PE liner or PP bag with PE liner Inside Corrugated Box.

Product Category: 15

The requirements of the Global Standard Food Safety (Issue 9, August 2022) are fulfilled.

Grade achieved: A+

Audit program: unannounced

Additional modules: no

Site code: 1586695

Auditor number: 22035

Audit date(s): 2024-04-22- 2024-04-24

Re-audit due date: from 2025-04-23 to 2025-05-21

Validity:

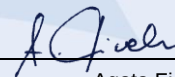
The certificate is valid until 2025-07-03

BRCGS

Food Safety

CERTIFICATED

2024-06-05



Agata Ficek
TÜV Rheinland Cert GmbH
Am Grauen Stein · 51105 Köln

If you would like to give feedback on the BRCGS Standard or the audit process directly to BRCGS, please contact enquiries@brcgs.com or use the BRCGS reporting system at <https://tellusbrcgs.whistleblownetwork.net>
To verify certificate validity, please visit <https://directory.brcgs.com>
This certificate remains the property of TÜV Rheinland Cert GmbH

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

معهد التطوير الحلال في الفلبين

HALAL DEVELOPMENT INSTITUTE OF THE PHILIPPINES

RECOGNIZED INTERNATIONAL RELIGIOUS HALAL CERTIFYING BODY

Accredited by: National Commission on Muslim Filipinos (NCMF)

Registered: Intellectual Property Office, Philippines

MEMBER: World Halal Food Council



HALAL CERTIFICATE

(Original/Renewal)



TO WHOM IT MAY CONCERN:

THIS IS TO CERTIFY that the product/s *processed/prepared/manufactured/distributed* by **SHEMBERG INGREDIENTS AND GUM CORPORATION**, a large company located at S.E. Jayme Street Pakna-an, Mandaue City, Cebu 6014, Philippines is/are **HALAL**, in accordance with Islamic Law and compliance with the World Halal Standard and Halal Assurance System (HAS) of the Halal Development Institute of the Philippines.

FURTHERMORE, after investigating the herein attached products are free from Haram elements and any other contaminants.

This certification is valid for one (1) year only, non-lendable, strictly non-transferable, and subject to cancellation or recall should a violation of any Halal standard requirements according to Islamic Law, based on the statement with all the raw materials and processing of their registered products. Terms and conditions are at the back of this certificate.

Issued this 18th day of July 2024 at Quezon City, Philippines.


USTADZ HABIB O. ABDIN, AL HAJJ
 Chairman Fatwa Committee


HADJA YA-EL BAGIS-ANCHETA, RCh.
 Director for Halal Certification

Code : HDIP-FI - 367
 Date Issued : July 18, 2024
 Valid Until : July 18, 2025
 REF No. : FI 367024018-07

"IMPORTANT: THIS CERTIFICATE WILL BE DISPLAYED AT ALL TIMES UNTIL EXPIRATION. AND THE HALAL CERTIFICATE MUST BE RETURNED TO HDIP AFTER ITS VALIDITY, SUSPENDED AND/OR REVOKED"



Recognition / Affiliation



NCMF



Indonesia



Malaysia



Singapore



Thailand



America



Korea



Taiwan



Office: Central Bldg., 3rd Flr Unit 303, 37 P.A. Bernardo Street, Cubao, Quezon City Philippines

Website: <http://www.hdiphilippineshalal.com>

Member: World Halal Food Council
 Asia, Australia, New Zealand
 America, Latin America, Europe

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ORTHODOX UNION

LETTER OF KOSHER CERTIFICATION

UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה
FORTY RECTOR STREET / NEW YORK, NY 10006 / 212-613-8241 / KOSHERLETTER@OU.ORG / OUKOSHER.ORG

בס"ד

March 04, 2025

This is to certify that the following products prepared by

Shemberg Ingredients and Gums Corp, S.E. Jayme St., Pakna-an, Mandaue City, Cebu, 6014 PHILIPPINES

At the following facility are under the supervision of the Kashruth Division of the Orthodox Union and are kosher as indicated below.

Shemberg Ingredients and Gums Corporation - Cebu, S.E. Jayme St., Pakna-an, Mandaue City, Cebu, 6014 PHILIPPINES

Product Name	UKD-ID	Status	Certification Requirements
Brand: Shemberg			
• ATS-80	OUV3-D4097E4	Pareve	Ⓢ Symbol required.
• CM-61BF	OUV3-B077153	Pareve	Ⓢ Symbol required.
• CM-61BF (DH)	OUV3-FBC2BDF	Pareve	Ⓢ Symbol required.
• CM-65BF	OUV3-CD65657	Pareve	Ⓢ Symbol required.
• CM-888	OUV3-0322403	Pareve	Ⓢ Symbol required.
• IC-61BF	OUV3-5A71857	Pareve	Ⓢ Symbol required.
• MB-910	OUV3-2C390F6	Pareve	Ⓢ Symbol required.
• MBF-157	OUV3-3A5CA50	Pareve	Ⓢ Symbol required.
• MBF-157i	OUV3-CC7D4A8	Pareve	Ⓢ Symbol required.
• MBF-167X	OUV3-6933BE2	Pareve	Ⓢ Symbol required.
• MBF-2000	OUV3-F975C3B	Pareve	Ⓢ Symbol required.
• MBF-202	OUV3-0DE821E	Pareve	Ⓢ Symbol required.
• MBF-202i	OUV3-4F40FF4	Pareve	Ⓢ Symbol required.

Use of the OU trademark must comply with the terms set forth in a written agreement with the Orthodox Union. Any other use of the OU trademark is not authorized.

Rabbi Menachem Genack, Rabbinic Administrator, CEO

This certification is valid through 2/28/2026

Page 1 of 3



ORTHODOX UNION

LETTER OF KOSHER CERTIFICATION

UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה
FORTY RECTOR STREET / NEW YORK, NY 10006 / 212-613-8241 / KOSHERLETTER@OU.ORG / OUKOSHER.ORG

בס"ד

March 04, 2025

Shemberg Ingredients and Gums Corp (continued)

Shemberg Ingredients and Gums Corporation - Cebu, S.E. Jayme St., Pakna-an, Mandaue City, Cebu, 6014 PHILIPPINES

This is to certify that the following products prepared by this company at the facility listed above are under the supervision of the Kashruth Division of the Orthodox Union and are kosher as indicated below.

Product Name	UKD-ID	Status	Certification Requirements
Brand: Shemberg (continued)			
• MBF-209	OUV3-RLMSNUU	Pareve	Ⓢ Symbol required.
• MBF-209i	OUV3-E79C529	Pareve	Ⓢ Symbol required.
• MBF-9414	OUV3-849F6CF	Pareve	Ⓢ Symbol required.
• MPS-50	OUV3-116AB05	Pareve	Ⓢ Symbol required.
• PF-252	OUV3-14250E1	Pareve	Ⓢ Symbol required.
• PF-254	OUV3-CT3AUTS	Pareve	Ⓢ Symbol required.
• PT-200DX	OUV3-23B7731	Pareve	Ⓢ Symbol required.
• PT-200FDX	OUV3-BAF8CD0	Pareve	Ⓢ Symbol required.
• Puregell 400	OUV3-BCC3F4B	Pareve	Ⓢ Symbol required.
• S-100	OUV3-A7FC3BB	Pareve	Ⓢ Symbol required.
• S-100F	OUV3-3F2CD39	Pareve	Ⓢ Symbol required.
• S-100Fi	OUV3-5A7F06C	Pareve	Ⓢ Symbol required.
• S-100FT	OUV3-D4907C6	Pareve	Ⓢ Symbol required.

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Rabbi Menachem Genack, Rabbinic Administrator, CEO

This certification is valid through 2/28/2026

Page 2 of 3



ORTHODOX UNION

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UNION OF ORTHODOX JEWISH CONGREGATIONS OF AMERICA איחוד קהילות האורתודוקסים באמריקה
FORTY RECTOR STREET / NEW YORK, NY 10006 / 212-613-8241 / KOSHERLETTER@OU.ORG / OUKOSHER.ORG

בס"ד

March 04, 2025

Shemberg Ingredients and Gums Corp (continued)

Shemberg Ingredients and Gums Corporation - Cebu, S.E. Jayme St., Pakna-an, Mandaue City, Cebu, 6014 PHILIPPINES

This is to certify that the following products prepared by this company at the facility listed above are under the supervision of the Kashruth Division of the Orthodox Union and are kosher as indicated below.

Product Name	UKD-ID	Status	Certification Requirements
Brand: Shemberg (continued)			
• SF-80K	OUV3-22D43C3	Pareve	Ⓢ Symbol required.
• WG-14	OUV3-B648617	Pareve	Ⓢ Symbol required.
• WG-2000	OUV3-0561F21	Pareve	Ⓢ Symbol required.
• WG-220	OUV3-5AA1F1A	Pareve	Ⓢ Symbol required.

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Page 3 of 3