

# VERIFICATION OF INTERNATIONAL PRODUCT ENVIRONMENTAL FOOTPRINT

### **G.CLO LTD**

(41064) 100, Maeyeo-ro, Dong-gu, Daegu, Republic of Korea

We confirm that the carbon footprint emissions declared by the above company have been verified by Intertek Testing Services Korea Ltd.

CERAVIDA FRESH: 0.965 kg CO2eq./kg

 $(2023.01 \sim 2023.12)$ 

The verification of the carbon footprint of the product was conducted in accordance with the requirements of the ISO 14067:2018, ISO 14040: 2006, and ISO 14044: 2006 standards.

For the details of the verification, you can find relevant CFP Report(CFP24-0501) and Verification Statement of CERAVIDA FRESH of G.CLO.

Statement No. IPEF-2024-002

**Date of issue:** 19 June 2024 (First issue date: 19 June 2024)



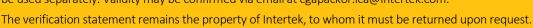


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General Manager, Intertek SL, HL & BA

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In the issuance of this verification Statement, Intertek assumes no liability to any party other than to the Client, and then only in accordance with the agreed upon Verification Agreement. All pages of this statement are in integrity and could not be used separately. Validity may be confirmed via email at cgapackor.lca@intertek.com.











## International Product Environmental Footprint Verification Statement

#### **Introduction**

**G.CLO** requested independent verification of "Carbon footprint emissions for product, **CERAVIDA FRESH**" from Intertek Testing Services Korea Ltd. Intertek Testing Services Korea Ltd. conducted a third-party result verification of the international Product footprint for one product, **CERAVIDA FRESH** of **G.CLO**. This verification is based on the scope, purpose, and standards of application agreed upon on **May 03, 2024**.

#### **Objective**

The purpose of this verification is to determine whether the information, data, and results included in the product carbon footprint conducted by **G.CLO** are appropriate based on objective evidence. This verification provides **G.CLO** with a third-party assurance that the claims are reliable and of sufficient quality in accordance with the ISO 14067:2018, ISO 14040: 2006, and ISO 14044: 2006 standards.

#### **Standards and Scope**

This document is a verification statement on the carbon footprint emissions from products and production reported at the business site **from January 2023 to December 2023**.

- Verification standards
- ISO 14067:2018
- ISO 14040: 2006
- ISO 14044: 2006

The scope of the verification included assessment of accuracy and reliability of the carbon footprint emissions of **CERAVIDA FRESH** produced by **G.CLO**.

- Target product (Functional unit): **CERAVIDA FRESH** (1kg)
- Product description: Fiber antimicrobial agent
- Head office: 100, Maeyeo-ro, Dong-gu, Daegu, Republic of Korea
- Production site: 100, Maeyeo-ro, Dong-gu, Daegu, Republic of Korea
- System boundary: Cradle-to-Gate

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( ■ Raw materials ■ Manufacturing	☐ Use	☐ Distribution	□ Disposal )
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• Standards/PCR: PCR 2021:03 Basic chemicals (version 1.1.3)

• Assumption and limitation: Refer to CFP Report

• Emissions information

Sta	age	Raw materials	Manufacturing	Use	Distribution	Disposal	Total
System k	ooundary						
Impact Category	Climate Change	- 0.930	0.035				0.065
Unit	kg CO₂eq./kg						0.965

#### Level of assurance and materiality

• Level of assurance: Limited assurance

This verification was conducted at a limited level of assurance using the verification procedures of Intertek Testing Services Korea Ltd.

Note: In limited assurance verification, the scope of evidence collection is less than that of a reasonable assurance verification. Limited assurance verification focuses on collected data rather than directly verifying raw data at the workplace. As a result, limited assurance verification has a significantly lower level of assurance than reasonable assurance verification.

• Materiality threshold: ± 5% for the total sum

This verification is considered materially misleading if the value of the error more than 5% of the total inventory emissions for the subject matter of the verification.

Note: Materiality means that individual or aggregate errors, omissions, or misstatements can impact your carbon footprint and inform your decision-making. Materiality is therefore used to identify information that, if omitted or incorrectly stated, could result in an overall incorrect estimate of the footprint and ensure that such material inconsistencies are absent or minimized.

#### **Methods of verification**

This verification is conducted in accordance with the verification procedures of Intertek Testing Services Korea Ltd. The following activities were conducted as part of evidence collection.

- We conducted an on-site inspection of the business site and reviewed the management process for Life Cycle Inventory Analysis (LCI)-related data and records.
- Past data and records for Life Cycle Inventory Analysis (LCI) were verified at the data collection level.

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- We reviewed the effectiveness of data processing procedures, guidelines, and systems, including internal verification of **G.CLO**'s data management system to ensure that there were no significant errors, omissions, or misstatements in the Life Cycle Impact Assessment (LCIA), and interviewed key personnel who compile and edit data and calculate the LCIA.
- We confirmed that secondary data was referenced from reliable or credible sources.
- We confirmed that the LCIA calculation procedures, including data collection, cut-off criteria application, allocation, and life cycle impact assessment analysis, complied with the requirements of ISO 14040:2006 and ISO 14044:2006.

#### **Qualification and Independence**

Intertek Testing Services Korea Ltd. implements and maintains a comprehensive management system that satisfies the accreditation requirements of ISO 14065:2020 and ISO/IEC 17029:2019. Additionally, we comply with the Code of Ethics for Certified Public Accountants of the International Ethics Standards Board for Accountants (IESBA).

Intertek Testing Services Korea, Ltd. ensures that appropriately qualified verification examiners are selected based on qualifications, training, and experience. The results of all verification and certification assessments are reviewed internally by management to ensure that the approach applied is rigorous and transparent.

For **CERAVIDA FRESH**, Intertek Testing Services Korea, Ltd. has conducted only a verification review, so it does not violate independence and fairness.

#### **Conclusions**

As a result of the verification based on Intertek Testing Services Korea Ltd.'s approach, no errors or omissions were identified within the assurance level in reporting **CERAVIDA FRESH** carbon footprint emissions in all material respects.

This opinion is based on verification at a limited assurance level and was derived based on the verification team's professional judgment.

Intertek Testing Services Korea Ltd. does not assume any obligation or responsibility to any other person or organization. **G.CLO** is responsible for collecting, compiling, and presenting analysis of all data and information related to carbon footprint emissions and maintaining effective internal controls. If this verification statement is disclosed, it must be disclosed in complete form.

The organization that has been issued this verification statement must comply with the verification display and promotion methods in accordance with the standards set by the operating organization (Korea Institute of Industrial Technology).

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This verification statement is valid only for the scope of application, verification purpose, explanation, and standards specified in the verification statement.

This document is a verification statement for a field accredited by the Korea Accreditation Organization (KOLAS).

#### On behalf of Intertek

Reviewer Heechan Kang

Lead verifier Miji Shin

**Verifier** Dooyong Jo

**DATE: 2024.06.19** 

#### **Intertek Testing Services Korea Ltd.**

– 7, Achasan-ro 5-gil, Seongdong-gu, Seoul, 04793, Korea

Intertek Testing Services Korea Ltd. has been approved as a carbon footprint verification agency by the Korea Institute of Industrial Technology (KITECH) (Approval No.: KITECH-CFP/ISO-006).