



AJINOMOTO DO BRASIL INDÚSTRIA E COMÉRCIO DE ALIMENTOS LTDA.

Address: Avenida Oriente, s/n, Vila Oriente, Laranjal Paulista, São Paulo, 18502-000, Brazil.

The verification of the Carbon Footprint of Ajinomoto do Brasil Indústria e Comércio de Alimentos Ltda's products, for the fiscal year 2024 (April 1, 2024 to March 31, 2025), was carried out in accordance with the requirements of the standard:

ISO 14067:2018

For the product(s) listed below:

- Amino Arginine

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SGS has been contracted by [Ajinomoto do Brasil Indústria e Comércio de Alimentos Ltda.](#) (here in referred to as "CLIENT"), located at [Avenida Oriente, s/n, Vila Oriente, Laranjal Paulista, São Paulo, 18502-000](#) for the verification of the Carbon Footprint of [Amino Arginine Product](#), according to the standard:

ISO 14067:2018

According to the "[AJINOMOTO_VER 54817_Relatório_ISO14067_rev03](#)" report prepared by [Ajinomoto do Brasil Indústria e Comércio de Alimentos Ltda.](#) covering Life Cycle Analysis (LCA) for Carbon Footprint of [Amino Arginine Product](#), for FY 2024 (April 01, 2024 to March 31, 2025).

Functions and responsibilities

The customer is responsible for the information system and calculations of the life cycle analysis of the [Amino Arginine Product](#), as well as the development and maintenance of the records and procedures of the report.

It is SGS's responsibility to express an independent Carbon Footprint verification opinion based on the "[AJINOMOTO_VER 54817_Relatório_ISO14067_rev03](#)" report of 25 July 2025.

SGS conducted a Third Party verification on the "[AJINOMOTO_VER 54817_Relatório_ISO14067_rev03](#)" report of the life cycle analysis of [Amino Arginine product](#), provided in accordance with the principles of **ISO 14044:2009** and **ISO 14067:2018** for the period from [01 April 2024 to 31 March 2025](#). The verification was based on the scope of verification, objectives and criteria as agreed between the Client and SGS on [07/25/2025](#).

Scope Verified

- Product System Verified: [Production of Amino Arginine](#)
- System Boundaries: [Cradle-to-Gate](#).
- In the study, the study considered the greenhouse gas emissions related to the production processes, [extraction and production of raw materials](#) (such as molasses, ammonia, sulfuric acid, among others), including transportation to the unit, and including all internal production operations, consumption of utilities (water, energy, steam), generation and reuse of waste, until the moment the products are ready for shipment.
- Functional unit:
 - [Amino Arginine: 1 liter of product produced.](#)
- Geographic Location/activity limits: [Laranjal Paulista Unit, in the state of São Paulo.](#)
- Physical infrastructure: [the entire infrastructure of the value chain \(i.e. machinery, plant, construction, etc.\), and processing unit for packaging.](#)
- Sources, sinks and/or reservoirs included: [All impacts of the value chain were accounted for, from the extraction and production of raw materials and internal production operations, consumption of utilities \(water, energy, steam\), generation and reuse of waste, to availability for shipment.](#)

Conclusion

SGS do Brasil, based on ISO 14.067:2018 and ISO 14.044:2009, declares that the product life cycle assessment based on the Carbon Footprint of **Amino Arginine** Product, in the period from April 1, 2024 to March 31, 2025, produced by **Ajinomoto do Brasil Indústria e Comércio de Alimentos Ltda.**, are compliant:

- the methods used to perform LCA and are consistent with this International Standard,
- the methods used to perform LCA and are scientifically and technically valid,
- the data used are adequate and reasonable in relation to the purpose of the study,
- the interpretations reflect the identified limitations and the purpose of the study, and
- The study report is transparent and consistent.

Results

The life cycle analysis using the Carbon Footprint approach of the **Amino Arginine Product**, were verified by the third party by SGS as shown in the following table:

Table 1: Product Carbon Footprint Life Cycle Analysis Results:

Product	Indicator for the GWP 100 climate change impact category
Amino Arginine	1.20 kgCO ₂ eq/litre of product

SGS's approach is based on understanding the risks associated with the reporting of life cycle analysis. Our analysis included evaluating relevant evidence, based on tests, related to the quantities and information of the data reported by the organization.

We carry out our verification work to obtain the information, explanations and evidence deemed necessary to obtain the standard-compliant assessment of the Product Life Cycle Analysis data for the period from 01 April 2024 to 31 March 2025.

In SGS's opinion, the Product Carbon Footprint Report presented is:

- materialmente correto e é uma representação justa dos dados, e
- preparado de acordo com a ISO 14.067:2018 e ISO 14.044:2009.