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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 7300.208-2025

Replacing GB 34463-2017

**Feed additives - Part 2: Vitamins, provitamins and chemically
well-defined substances having similar effects - Calcium
L-Ascorbate**

饲料添加剂 第2部分：维生素及类维生素 L-抗坏血酸钙

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document is Part 208 of GB 7300 "Feed Additives". GB 7300 has already published the following parts.

- 1. Amino acids, amino acid salts and their analogues L-threonine (GB 7300.101);
- 1. Amino acids, amino acid salts and their analogues, glycine (GB 7300.102);
- 1. Amino acids, amino acid salts and their analogues, methionine hydroxy analogues (GB 7300.103);
- 1. Amino acids, amino acid salts and their analogues L-valine (GB 7300.104);
- 1. Amino acids, amino acid salts and their analogues, taurine (GB 7300.105);
- 2. Vitamins and Vitamin-like L-ascorbic acid-2-phosphate salts (GB 7300.201);

1 Scope

GB 7300.208-2025 is the Chinese national standard on feed additives - part 2: vitamins, provitamins and chemically well-defined substances having similar effects - calcium L-ascorbate, in the field of agriculture. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 31 December 2025 by the State Administration for Market Regulation; Standardization Administration of China, and takes effect on 1 January 2027. Classification: ICS 65.120, CCS B46. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document provides the chemical name, molecular formula, relative molecular mass,

and structural formula of L-ascorbic acid calcium, and specifies the feed additive L-ascorbic acid calcium. The technical requirements, inspection rules, labeling, packaging, transportation, storage and shelf life of calcium ascorbate are described, along with sampling and testing methods. This document applies to L-ascorbic acid calcium, a feed additive prepared chemically from L-ascorbic acid and calcium salts.

2 Vitamins and Vitamin D

3 Oils (GB 7300.202);

2.Vitamins and Vitamin-like Betaine (GB 7300.203);

2.Vitamins and Vitamin-like Betaine Hydrochloride (GB 7300.204);

2.Vitamins and Vitamin B2-like Riboflavin (Vitamin B2) (GB 7300.205);

2.Vitamins and Vitamin-like Choline Chloride (GB 7300.206);

2.Vitamins and Vitamin-like Nicotinamide (GB 7300.207);

2.Vitamins and Vitamin-like L-Ascorbate Calcium (GB 7300.208);

2.Vitamins and Vitamin B12-like Cyanocobalamin (Vitamin B12) (GB 7300.209);

3.Mineral Elements and Their Complexes (Chelates) - Potassium Iodide (GB 7300.301);

3.Mineral Elements and Their Complexes (Chelates) - Sodium Selenite (GB 7300.302);

3.Mineral Elements and Their Complexes (Chelates) Potassium Iodate (GB 7300.303);

3.Mineral Elements and Their Complexes (Chelates) - Glycine Iron Complex (GB 7300.304);

3.Mineral Elements and Their Complexes (Chelates) - Basic Copper Chloride (GB 7300.305);

3.Mineral Elements and Their Complexes (Chromium Nicotinate) (GB 7300.306);

3 Terms and Definitions

This document does not contain any terms or definitions that need to be defined.

4.Chemical name, molecular formula, relative molecular mass, and structural formula

4.1 Chemical name. L-calcium ascorbate.

4.2 Molecular formula. $C_{12}H_{14}CaO_{12} \cdot 2H_2O$.

4.3 Relative molecular mass. 426.35 (based on the 2022 international relative atomic mass).

4.4 Structural formula. see Figure 1.

8 Benzoic acid (GB 7300.804). Preservatives, fungicides and acidity regulators

- 8.Preservatives, fungicides and acidity regulators (lactic acid) (GB 7300.805);
- 8.Preservatives, fungicides and acidity regulators, calcium formate (GB 7300.806);
- 8.Preservatives, fungicides and acidity regulators, calcium citrate (GB 7300.807);
- 8.Preservatives, fungicides and acidity regulators, sodium diacetate (GB 7300.808);
- 9.Coloring agent beta-carotene powder (GB 7300.901);
- 9.Coloring agents beta,beta-carotene-4,4-dione (cantharidin) (GB 7300.902);
- 10.Monosodium glutamate (MSG), a flavoring and stimulating food ingredient (GB 7300.1001);
- 10.Allicin, a flavoring and stimulating agent (GB 7300.1002);
- 10.Flavoring and Enhancing Agent Neomethylhesperidin dihydrochalcone (GB 7300.1003);
- 13.Other bile acids (GB 7300.1301). This document replaces GB 34463-2017 "Feed Additives L-Calcium Ascorbate". Compared with GB 34463-2017, the main differences are in the structural adjustments. Aside from editorial changes, the main technical changes are as follows:
- Appearance and properties have been changed (see Chapter 5, Chapter 3 of the.2017 edition);
- Added an infrared spectrophotometric method for the identification and determination of L-ascorbic acid calcium (see Chapter 7);
- The requirements for test data processing and precision have been changed (see Chapter 7, Chapter 4 in the.2017 edition);
- Packaging requirements have been changed (see Chapter 9, Chapter 6 of the.2017 edition). Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the Ministry of Agriculture and Rural Affairs of the People's Republic of China. The release history of this document and the document it replaces is as follows: