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

GB 7300.209-2025

**Feed additives - Part 2: Vitamins, provitamins and chemically
well-defined substances having similar effect - Cyanocobalamin
(Vitamin B12)**

饲料添加剂 第2部分：维生素及类维生素 氰钴胺（维生素B12）

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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 209 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 7300.209-2025 is the Chinese national standard on feed additives - part 2: vitamins, provitamins and chemically well-defined substances having similar effect - cyanocobalamin (vitamin b12), 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 common name, molecular formula, relative molecular mass,

and chemical structural formula of cyanocobalamin (vitamin B12), and specifies its feed... The technical requirements, inspection rules, labeling, packaging, transportation, storage, and shelf life of the additive cyanocobalamin (vitamin B12) are described, along with sampling and testing procedures. method. This document applies to cyanocobalamin, a feed additive obtained by purifying and crystallizing fermentation broth containing cobalamin produced by microbial fermentation.

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. Common name, molecular formula, relative molecular mass and chemical structural formula

4.1 Common Name Cyanocobalamin (vitamin B12).

4.2 Molecular Formula $C_{63}H_{88}CoN_{14}O_{14}P$.

4.3 Relative Molecular Mass 1355.38 (calculated based on the international relative atomic

mass in 2024).

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). 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.

Feed additives refer to small or trace amounts of substances added during feed processing, production, and use, including nutritional feed additives. And general feed additives. For ease of use, GB 7300 "Feed Additives" is divided into the following 13 major categories according to product type.

- Amino acids, amino acid salts and their analogues;
- Vitamins and vitamin-like substances;
- Mineral elements and their complexes;