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CCS B46



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

GB 7300.205-2025

Replacing GB/T 7297-2006

**Feed additives - Part 2: Vitamins, provitamins and chemically
well-defined substances having similar effect - Riboflavin
(Vitamin B2)**

饲料添加剂 第2部分：维生素及类维生素 核黄素（维生素B2）

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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 205 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 7300.205-2025 is the Chinese national standard on feed additives - part 2: vitamins, provitamins and chemically well-defined substances having similar effect - riboflavin (vitamin b2), 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 29 August 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 September 2026. 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 riboflavin (vitamin B2), and specifies its use as a feed additive. The technical requirements, sampling, inspection rules, labeling, packaging, transportation, storage, and shelf life of riboflavin (vitamin B2) products are described, along with the testing procedures. method. This document applies to riboflavin (vitamin B2), a feed additive produced through bio-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);

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.Mineral elements and their complexes (chelates) zinc glycine (GB 7300.307);

3.Mineral Elements and Their Complexes (Chelates) - Zinc Threonine Chelate (GB 7300.308);

4.Enzyme Preparations. Xylanase (GB 7300.401);

4.Enzyme Preparations. Phytase (GB 7300.402);

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

7,8-Dimethyl-10-[(2S,3S,4R)-2,3,4,5-Tetrahydroxypentyl]-3,10-Dihydrobenzopterin-2,4-dione.

4.2 Molecular Formula C₁₇H₂₀N₄O₆.

4.3 Relative Molecular Mass 376.37 (calculated based on the 2022 international relative atomic mass).

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);
- 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/T 7297-2006 "Vitamin B2 (Riboflavin) as a Feed Additive". Compared with GB/T 7297-2006, except for... Aside from structural adjustments and editorial changes, the main technical changes are as follows:
 - a) The vitamin B2 content range has been changed (see Table 1,.2006 edition);
 - b) The formula for calculating vitamin B2 content has been changed (see 7.4.5, 4.4.3 in the.2006 edition);
 - c) The precision requirements for vitamin B2 content determination have been changed (see 7.4.6, 4.4.4 in the.2006 edition);
 - d) Added specific rotation test data processing (see 7.5.5,