

ICS 65.120
CCS B46



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

GB 7300.308-2025

**Feed additives - Part 3: Minerals and their complexes (or
chelates) - Zinc threoninate chelate**

饲料添加剂 第3部分：矿物元素及其络(螯)合物 苏氨酸锌螯合物

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. This document is Part 308 of GB 7300 "Feed Additives". GB 7300 has been published in 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 analogs Glycine (GB 7300.102);
- 1. Amino acids, amino acid salts and their analogs - Methionine hydroxy analogs (GB 7300.103);
- 1. Amino acids, amino acid salts and their analogues L-valine (GB 7300.104);
- 2. Vitamins and vitamin-like substances L-ascorbic acid-2-phosphate (GB 7300.201);
- 2. Vitamins and vitamin-like vitamin D3 oil (GB 7300.202);
- 2. Vitamins and vitamin-like betaine (GB 7300.203);
- 2. Vitamins and vitamin-like substances. Betaine hydrochloride (GB 7300.204);
- 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) - Iron glycine complex (GB 7300.304);

1 Scope

GB 7300.308-2025 is the Chinese national standard on feed additives - part 3: minerals and their complexes (or chelates) - zinc threoninate chelate, 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 30 June 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 July 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 zinc threonine chelate, and specifies the feed additive threonine. The technical requirements, inspection rules, labeling, packaging, transportation, storage and shelf life of zinc aminoacid chelate are described, as well as the sampling and test methods. This document applies to feed additive threonine zinc chelate products which are chemically synthesized from threonine and zinc oxide.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 601 Preparation of standard titration solutions for chemical reagents

GB/T 603 Preparation of preparations and products used in test methods for chemical reagents

GB/T 5917.1 Determination of particle size of ground feeds - Two-layer sieve method

GB/T 6432 Determination of crude protein in feeds - Kjeldahl method

GB/T 6682 Specifications and test methods for water used in analytical laboratories

GB/T 8170 Rules for rounding off values and expression and determination of limit values

GB 10648 Feed Labeling

GB/T 13079 Determination of total arsenic in feed

GB/T 13080 Determination of lead in feed - Atomic absorption spectrometry

GB/T 13082 Determination of cadmium in feed GB/T 14699 Feed Sampling

GB/T 18246-2019 Determination of amino acids in feed

3 Terms and Definitions

There are no terms or definitions that require definition in this document.

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

4.1 Chemical name. Zinc threonate chelate.

4.2 Molecular formula. $C_8H_{16}N_2O_6Zn \cdot 2H_2O$.

4.3 Relative molecular mass. 337.63 (calculated according to the 2022 international relative atomic mass standard).