

ICS 65.120
CCS B46



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

GB 7296-2018

Replacing GB/T 7296-2008

Feed additive - Thiamine mononitrate (Vitamin B1)

饲料添加剂 硝酸硫胺 (维生素B1)

Issued on: December 28, 2018

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Standardization Administration of China**

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Foreword

Chapters 1, 4 and 6 of this standard are mandatory and the rest are recommended. This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 7296-2008 "feed additive vitamin B1 (thiamine nitrate)", compared with GB/T 7296-2008 The main technical changes are as follows:

--- Technical index "lead" was changed to "heavy metal (in Pb), $\leq 10.0\text{mg/kg}$ " (see 4.2, 3.2 of 2008 edition);

--- Increase the technical indicator "total arsenic, $\leq 2.0\text{mg/kg}$ " (see 4.2);

--- Technical indicators changed from "residue residue, $\leq 0.2\%$ " to "residue residue, $\leq 0.1\%$ " (see 4.2, 3.2 of 2008 edition);

--- Determination of thiamine nitrate content The silicotungstic acid precipitation method is an arbitration method, and the potentiometric titration method is added (see 5.3). This standard is proposed and managed by the Ministry of Agriculture and Rural Affairs of the People's Republic of China. This standard is mainly drafted by: National Feed Quality Supervision and Inspection Center (Wuhan), China Feed Industry Association. The main drafters of this standard. Liu Xiaomin, Wang Liwen, Liu Yuting, Zhang Yahui, Wang Jun, Xie Shenglun, Wang Sisi, Huang Ting, Chen Dawei. The standard version of the standard replaced by this standard is.

---GB 7296-1987, GB/T 7296-2008. Feed additive thiamine nitrate (vitamin B1)

1 Scope

GB 7296-2018 is the Chinese national standard on feed additive - thiamine mononitrate (vitamin b1), 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 28 December 2018 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 January 2020. 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 standard specifies the requirements, test methods, inspection rules and labels, packaging, transportation, and feed additives for thiamine nitrate (vitamin B1). Storage and shelf life. This standard is applicable to the feed additive thiamine nitrate (vitamin B1) obtained by chemical synthesis of aminopropionitrile.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article. Pieces. For undated references, the latest edition (including all amendments) applies to this document. Preparation of

GB/T 601 chemical reagent standard titration solution Preparation of standard solution for

GB/T 602 chemical reagent impurity determination Preparation of preparations and products used in

GB/T 603 chemical reagent test method

GB/T 6682 Analytical laboratory water specifications and test methods

GB/T 9725 chemical reagent potentiometric titration GB 10648 feed label

GB/T 13079 Determination of total arsenic in feed

GB/T 14699.1 Feed sampling

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

Chemical name.

4-methyl-3-[(2-methyl-4-amino-5-pyrimidinyl)-methyl]-5-(2-hydroxyethyl)thiazole nitrate

Molecular formula. C₁₂H₁₇N₅O₄S Relative molecular mass. 327.37 (according to 2016 international relative atomic mass) Structure.

4.1 Appearance and traits This product is white or off-white crystal or crystalline powder, slightly deodorizing. Slightly soluble in water. Slightly soluble in ethanol or chloroform.

4.2 Technical Specifications The technical indicators of thiamine nitrate (vitamin B1) should meet the requirements of Table 1.