

ICS 65.120  
CCS B46



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

**GB 7300.201-2019**

Replacing GB/T 19422-2003

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**Feed additives - Part 2: Vitamins, provitamins and chemically  
well-defined substances having similar effect -  
L-Ascorbyl-2-phosphate**

饲料添加剂 第2部分：维生素及类维生素 L-抗坏血酸-2-磷酸酯盐

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**Issued on: December 17, 2019**

**Implemented on: July 1, 2020**

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**Issued by: State Administration for Market Regulation;  
Standardization Administration of China**

## Table of Contents

- 1 Scope
- 2 Normative references
- 3 Technical requirements

### Foreword

Chapters 1, 3, 4, and 5 of this part are mandatory, and the rest are recommended. GB 7300 "feed additives" is divided into several parts by product. This section is Part.201 of GB 7300. This section is drafted in accordance with the rules given in GB/T 1.1-2009. This section replaces GB/T 19422-2003 "feed additive L-ascorbic acid-2-phosphate", compared with GB/T 19422-2003 The main technical changes are as follows:

- Increased product specifications (see 3.2);
- Increased the L-ascorbic acid-2-phosphate ester content item index, which is set to 95% ~ 110% of the indicated amount (see 3.4);
- Increased the indicator of the ratio of L-ascorbic acid-2-monophosphate to L-ascorbic acid-2-phosphate (see 3.4);
- Increased the total phosphorus index (see 3.4);
- Modify the total arsenic content  $\leq 5.0$  (mg/kg) to  $\leq 2.0$  (mg/kg) (see 3.4, 3.2 of the.2003 version);
- Modify the lead content  $\leq 30.0$  (mg/kg) to  $\leq 10.0$  (mg/kg) (see 3.4,

3.2 of the.2003 version). Please note that some elements of this document may involve patents. The issuer of this document is not responsible for identifying these patents. This section is proposed and managed by the Ministry of Agriculture and Rural Affairs of the People's Republic of China. Drafting organization of this section. Institute of Agricultural Quality Standards and Testing Technology, Chinese Academy of Agricultural Sciences [National Feed Quality Supervision and Inspection Center (Beijing)], Beijing Sunpu Biochemical Technology Co., Ltd. The main drafters of this section. Suo Decheng, Shi Wenjuan, Tian Jing, Li Hong, Yang Shuming, Zhang Su, Wang Shi, Wei Shulin. The previous versions of the standards replaced by this section are.

- GB/T 19422-2003. Feed additives Part 2. Vitamins and retinoids L-ascorbic acid-2-phosphate

## 1 Scope

GB 7300.201-2019 is the Chinese national standard on feed additives - part 2: vitamins, provitamins and chemically well-defined substances having similar effect - L-ascorbyl-2-phosphate, 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 17 December 2019 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 July 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 part of GB 7300 specifies the technical requirements, test methods, inspection rules and requirements for feed additive L-ascorbic acid-2-phosphate ester salt. Labeling, packaging, transportation, storage and shelf life. This section applies to the L-ascorbic acid-2-phosphate ester prepared by the reaction of L-ascorbic acid with metaphosphate (sodium, calcium, magnesium, etc.).

## 2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article. For undated references, the latest version (including all amendments) applies to this document.

GB/T 601 chemical reagent standard titration solution

GB/T 602 Preparation of standard solutions for impurity determination of chemical reagents  
Preparation of preparations and products used in

GB/T 603 chemical reagent test method

GB/T 6435 Determination of moisture in feed

GB/T 6437 Determination of total phosphorus in feed Spectrophotometry

GB/T 6682 Analytical laboratory water specifications and test methods

GB/T 8170 Numerical rounding rules and expression and judgment of limit values  
GB 10648 feed label

GB/T 13079-2006 Determination of total arsenic in feed

GB/T 13080 Determination of lead in feeds Atomic absorption spectrometry

GB/T 14699.1 Feed sampling

GB/T 18634 Determination of feed phytase activity Spectrophotometry

### 3 Technical requirements

3.1 Appearance and properties This product is off-white or light yellow powder.

3.2 Product Specifications Product specifications can be determined according to contract requirements, but the content of L-ascorbic acid-2-phosphate ester (as L-ascorbic acid) must not be less than 35%.

3.3 Identification Should meet the maximum ultraviolet absorption wavelength of L-ascorbic acid-2-phosphate ester, or the characteristics of the chemical reaction described in 4.4.

3.4 Technical indicators The technical indicators shall meet the requirements in Table 1.