

ICS 65.120

CCS B46



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

GB 7300.204-2019

**Feed additives - Part 2: Vitamins, provitamins and chemically
well-defined substances having similar effect - Betaine
hydrochloride**

饲料添加剂 第2部分：维生素及类维生素 甜菜碱盐酸盐

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Foreword

Chapters 1, 4, 5, and 6 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 204 of GB 7300. This section is drafted in accordance with the rules given in GB/T 1.1-2009. 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. This section was drafted. Yixing Tianshi Feed Co., Ltd., Feed Quality Supervision and Testing Center of the Ministry of Agriculture and Rural Affairs (Jinan). The main drafters of this section. Zou Sanyuan, Zou Yidong, Zhang Yun, Chen Zhongfen. Feed additives Part 2. Vitamins and retinoids Betaine hydrochloride

1 Scope

GB 7300.204-2019 is the Chinese national standard on feed additives - part 2: vitamins, provitamins and chemically well-defined substances having similar effect - betaine hydrochloride, 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 labeling, packaging, Transport, storage and shelf life. This section applies to the synthesis of betaine aqueous solution by the reaction of trimethylamine with chloroacetic acid, sodium carbonate or sodium hydroxide. After concentration, desalting, hydrochloric acid Feed additive betaine hydrochloride made by crystallization, drying and other processes.

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 Pieces. For undated references, the latest version (including all amendments) applies to this document. Preparation of

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 6438 Determination of crude ash in feed

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 14699.1 Feed sampling

3 Chemical name, molecular formula, relative molecular mass, structural formula Chemical
Name. Betaine Hydrochloride Molecular formula. $C_5H_{12}NO_2 \cdot Cl$ Relative molecular mass.
153.61 (according to international relative atomic mass in.2016) Structural formula. $CH_3 N$
 $CH_3 CH_3 CH_2 C OH Cl-$

4 Technical requirements

4.1 Appearance and properties This product is a white crystalline powder with
hygroscopicity.