

Translated English of Chinese Standard: GB/T 17810-2009

Translated by: www.ChineseStandard.net

Wayne Zheng et al.

Email: Sales@ChineseStandard.net

ICS 65.120

B 46

GB

National Standard
of the People's Republic of China

GB/T 17810-2009

Replacing GB/T 17810-1999

Feed grade DL-methionine

饲料级 DL-蛋氨酸

GB/T 17810-2009 How to BUY & immediately GET a full-copy of this standard?

1. www.ChineseStandard.net;
2. Search --> Add to Cart --> Checkout (3-steps);
3. No action is required - Full-copy of this standard will be automatically & immediately delivered to your EMAIL address in 0~25 minutes.
4. Support: Sales@ChineseStandard.net. Wayne, Sales manager

Issued on: May 26, 2009

Implemented on: October 1, 2009

**Issued by: General Administration of Quality Supervision, Inspection and Quarantine;
Standardization Administration Committee.**

Table of Contents

1 Scope.....	4
2 Normative references.....	4
3 Requirements.....	5
4 Test methods.....	5
5 Inspection rules.....	12
6 Labeling, packaging, transportation, and storage	13

Foreword

This Standard replaces GB/T 17810-1999 "Feed grade DL-methionine".

The main technical differences between this Standard and GB/T 17810-1999 are as follows:

- REVISE GB/T 6678 in normative references to GB/T 14699.1;
- REVISE 3.1 in previous standard to "Appearance and characters - White or light gray powder or flaky crystals. It is slightly-soluble in water. It is extreme-slightly-soluble in ethanol. It is slightly-soluble in diluted acid and sodium hydroxide (potassium) solutions";
- Tolerance in 4.1.5 of previous standard is adjusted from "absolute differences of two parallel determination results shall not be greater than 0.1%" to "absolute differences of two parallel determination results shall not be greater than 0.3%";
- ADD the product identification methods (ion exchange chromatography);
- MODIFY the determination methods of heavy metals;
- MODIFY the arsenic determination methods;
- ADD "factory-exit inspection" and "type inspection" in inspection rules.

This Standard was proposed by and shall be centralized by National Standardization Technical Committee of Feed Industry.

This Standard was drafted by Feed Research Institute, Chinese Academy of Agricultural Sciences.

Main drafters of this Standard: Fan Zhiying, Liu Qingsheng, Ma Shuyu, Tian Yuan, Shi Dongdong.

The previous version replaced by this Standard is:

- GB/T 17810-1999.

Feed grade DL-methionine

1 Scope

This Standard specifies the requirements, test methods, inspection rules, labeling, packaging, storage, and transportation of feed grade DL-methionine products.

This Standard applies to the feed grade DL-methionine that uses methylthiopropional, cyanide, sulfuric acid, and sodium hydroxide as main raw materials.

Chemical name: 2-amino-4-methylthio butyric acid

Chemical formula: $\text{CH}_3\text{S}-\text{CH}_2-\text{CH}_2-\text{CH}(\text{NH}_2)-\text{COOH}$

Relative molecular mass: 149.2 (according to Year-2007 international relative atomic mass)

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard. However, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 601 Chemical reagent - Preparations of standard volumetric solutions

GB/T 1250 Rules for expression and judgment of limiting values

GB/T 6682 Water for analytical laboratory use - Specification and test methods

GB 10648 Feed label

GB/T 14699.1 Animal Feeding Stuffs - Sampling

"Pharmacopoeia of People's Republic of China" Volume 2, Edition 2005

VIII J, Volume 2, Edition 2005).

5 Inspection rules

5.1 Products shall be inspected by quality inspection department of the manufacturer. The manufacturer shall ensure that all products exiting factory shall meet the requirements of Chapter 3 of this Standard. And accompany with quality certificates in certain format.

5.2 The products produced and packaged by the same batch of raw materials, by the same shift, with the same process condition, same batch number, same specification, and same quality certificates are deemed as a batch.

5.3 The sampling bag quantity shall be executed according to the specifications of GB/T 14699.1. When sampling, insert the sampler into the position that is three-fourths of the depth of material layer. The obtained samples are mixed evenly. USE quartation method to reduce the samples to about 500 g. PACK in 2 dry, clean bottles with grinding stoppers. PASTE labels on the bottles. INDICATE the name of manufacturer, product name, production date, and batch. One bottle is for testing, another bottle is preserved for standby.

5.4 Factory-exit inspection: Each batch of products shall be conducted for factory-exit inspection when exiting the factory. The inspection items are sensory index, loss on drying, and DL-methionine content.

5.5 Type inspection: Type inspection shall be conducted once every 6 months. Type inspection items include all the requirements specified in Chapter 3 of this Standard. When there is 1 of the following situations, it shall conduct type inspection for the product quality:

- a) When the production process and the main raw materials are changed;
- b) When resuming production after production is shutdown for more than 3 months;
- c) When statutory inspection department proposes the requirements;
- d) Contractual specification.

5.6 Judgment rules: The products of which all inspection results meet the requirements of Chapter 3 of this Standard are judged as qualified. When there is 1 indicator not meeting the requirements of this Standard, it shall be re-sampled for re-inspection. It is judged as unqualified when there is 1 item in re-inspection result not complying with this Standard.

5.7 Data processing of this Standard, according to GB/T 1250, uses rounding value comparison method.

6 Labeling, packaging, transportation, and storage

6.1 The content of labels shall comply with the specification of GB 10648.

6.2 The products are packaged in bags. The packaging bags are divided into 3 layers. The outer layer is polyethylene composite fabric; the middle layer is kraft paper; and the inner layer is low-density polyethylene film or non-toxic PVC film. It can also use other packaging that can ensure the product quality.

6.3 The products shall be prevented from rain, moisture, and sunlight during transportation. It is strictly prohibited that transporting with toxic substances.

6.4 The products shall be stored in a dry, clean indoor warehouse. Avoid the rain and moisture. It shall not be stored with toxic substances.

6.5 Shelf life of original packaging under specified storage conditions is 36 months.

END

This is an excerpt of the PDF (Some pages are marked off intentionally)

Full-copy PDF can be purchased from 1 of 2 websites:

1. <https://www.ChineseStandard.us>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Select your country (currency), for example: USA (USD); Germany (Euro).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Tax invoice can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with download links).

2. <https://www.ChineseStandard.net>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Add to cart. Only accept USD (other currencies - <https://www.ChineseStandard.us>).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with PDFs attached, invoice and download links).

Translated by: Field Test Asia Pte. Ltd. (Incorporated & taxed in Singapore. Tax ID: 201302277C)

About Us (Goodwill, Policies, Fair Trading...): <https://www.chinesestandard.net/AboutUs.aspx>

Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

----- The End -----