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

GB 14924.3-2010

Replacing GB 14924.3-2001

Laboratory animals - Nutrients for formula feeds

实验动物 配合饲料营养成分

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Quarantine;
Standardization Administration of the PRC**

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1.5 K/g >= 5 5 6 10 5 5 6 10 5 7 7

2 Normative references

2.00 Biotin/mg 0.10 0.20 0.20 0.45 0.10 0.20 0.20 0.45 0.20 0.20 0.10

2.7 Phenylalanine, tyrosine/g 11.0 13.0 12.0 15.0 12.7 17.3 11.0 13.0 10.0 15.6 13.1

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8 Sodium/g >= 2.0 2.0 2.0 3.0 2.0 2.0 2.0 3.0 3.9 4.4 3.0

8.2 Val/g 8.4 11.7 8.0 9.3 10.5 11.2 7.5 8.3 5.4 10.4 9.0

12.0 Methionine, cystine/g 5.3 7.8 5.4 6.8 7.0 7.8 5.0 6.0 5.4 7.2 6.0

12.9 Histidine/g 4.0 5.5 3.4 4.0 4.5 5.5 3.0 3.5 2.5 4.8 4.4

15.4 Thr/g 6.5 8.8 6.5 7.5 8.0 8.8 5.6 6.5 6.5 7.8 6.3

15.9 Isoleucine/g 7.0 10.3 7.2 8.0 10.3 11.8 6.0 7.2 5.0 7.9 7.2

Foreword

3.2.1 GB 14924 in this section in conventional nutrient feed component indexes and indicators

3.2.2 feed amino acid, methionine Cystine indicators are mandatory, others are recommended. This Part replaces GB 14924.3-2001 "experimental animals such as mice rats feed", GB 14924.4-2001 "experimental animals RABBIT feed ", GB 14924.5-2001" guinea pig animal feed ", GB 14924.6-2001" to laboratory animals Rats feed ", GB 14924.7-2001" dog animal feed ", GB 14924.8-2001" monkey animal feed. " This section, compared with the previous version, the main changes are as follows:

a) This section is GB 14924.3-2001, GB 14924.4-2001, GB 14924.5-2001, GB 14924.6-2001, GB 14924.7-2001, GB 14924.8-2001 standard form content integration;

b) amend the original standard part of regular nutrient content index (gophers maintain feed, growth and reproduction feed crude protein content; dog Maintain feed crude fiber content, growth and reproduction feed crude protein and crude fat content);

c) provides for conventional feed nutrients, amino acids and mineral content of the constant unit in g/kg expressed;

d) provides for cooperation and constant content of minerals and trace mineral content of vitamin feed maximum limit is twice the lower limit. This part of the National Standardization Technical Committee of experimental animals and focal points. This section drafted by: National Standardization Technical Committee of experimental animals. The main drafters of this section. Liu Yuan, Shimei Lian, Zhou Ruihua, Su Wei, Wang Zhu, Suxiao Ou. This Part replaces the following previous editions.

--- GB 14924-1994;

--- GB 14924.3-2001;

--- GB 14924.4-2001;

--- GB 14924.5-2001;

--- GB 14924.6-2001;

--- GB 14924.7-2001;

--- GB 14974.8-2001. Animal feed nutrients

1 Scope

Part 3 of China's mandatory series on laboratory animals, setting the nutrient composition of the compound feeds they are given - the part of the animal house that is invisible in a published paper and yet decides whether the results from two laboratories can be compared at all, since an animal on a different diet is a different experimental system. This part specifies the nutrient requirements for the formula feeds of laboratory animals, and it applies to the compound feeds for laboratory animals, excluding the special requirements of the feeds for model animals. The requirements are tabulated species by species and, within a species, by the physiological stage the animal is at, since a growing, a breeding and a maintenance diet are not the same: mice, rats, guinea pigs, hamsters, rabbits, dogs and monkeys each have their own column. What is set for each is the crude protein, the crude fat, the crude fibre, the crude ash and the moisture; the amino acids, with lysine and the sulfur amino acids leading; the minerals and trace elements, calcium and phosphorus and their ratio among them; and the vitamins, both fat and water soluble. Because the guinea pig cannot synthesise ascorbic acid and the rabbit needs a fibre level that would be excessive for a rat, the differences between the columns are not a formality. The general quality requirements for the feed itself are carried by Part 1 of the series, and the determination of each of these components is carried by the analytical parts, GB/T 14924.9 to GB/T 14924.12. Issued on 23 December 2010 and in force since 1 October 2011, it replaces GB 14924.3-2001.

This section provides animal feed nutrient requirements. This section applies to animal feed (not including the special requirements of the model animal feed).

1.0 Vitamin B1/mg 8,137,108,137,106,134

16 Vitamin B2/mg 1,012,815,101,281,545,516 Vitamin B6/mg 612,696,126,956,513
Niacin/mg 45 60 40 55 4,560,405,550,505,060 Pantothenic acid/mg 17 24
1,219,172,412,199,271,342 Folic acid/mg 4.00 6.00 1.00 3.00 4.00 6.00 1.00 3.00 0.16
1.00 0.20

1.2 About 1.7 1.3.1 2.0.1 1.3.1 2.0.1 1.2 1.4.1 1.2 1.4.1 1.2 1.5 1.2 1.5

3.3 when fed with feed amino acid indicators should comply with the provisions of Table 2.
Table 2 feed amino acid index (content per kg diet) index Mice, rats, guinea pigs hamster
rabbit dogs monkeys maintain feed Growth, Multiplication feed maintain feed Growth,
Multiplication feed maintain feed Growth, Multiplication feed maintain feed Growth,
Multiplication feed maintain feed Growth, Multiplication feed maintain feed Growth,
Multiplication feed Lysine/g 8.2 13.2 7.5 8.5 11.8 13.2 7.0 8.0 7.1 11.1 8.5

2 Normative references

The following documents contain provisions which, through reference

GB/T 14924 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB 14924.1 animal feed common quality standards Determination of conventional feed nutrients

GB/T 14924.9 animal mating Determination of Amino Acids

GB/T 14924.10 animal mating Determination of feed vitamins

GB/T 14924.11 animal mating Determination of minerals and trace elements feed

GB/T 14924.12 animal mating

2.00 Biotin/mg 0.10 0.20 0.20 0.45 0.10 0.20 0.20 0.45 0.20 0.20 0.10

0.40 Vitamin B12/mg 0.020 0.022 0.020 0.030 0.020 0.022 0.020 0.030 0.030 0.068 0.030

0.050 Choline/mg 1,250,125,010,001,200 1,250,125,010,001,200 1,400,200,013,001,500

Vitamin C/mg - - 1500 1800 - - - - 1700 2000 With the highest vitamin content of feed upper limit is twice the lower limit.

3.5 when fed with feed mineral indicators should comply with Table 4. Table 4 constant feed
of minerals and trace minerals index (content per kg diet) index Mice, rats, guinea pigs
hamster rabbit dogs monkeys maintain feed Growth, Multiplication feed maintain feed
Growth, Multiplication feed maintain feed Growth, Multiplication feed maintain feed Growth,
Multiplication feed maintain feed Growth, Multiplication feed maintain feed Growth,
Multiplication feed Mg/g >= 2.0 2.0 2.0 3.0 2.0 2.0 2.0 3.0 1.5 2.0 1.0

3 Nutrients

3.1 feed raw material requirements, testing rules, labeling, packaging, storage, transportation, etc. shall comply with the provisions of GB 14924.1.

3.2 When fed with a conventional diet nutrition indicators should meet the requirements in Table 1. Table

1 Conventional feed nutrition indicators (content per kg diet) index Mice, rats, guinea pigs hamster rabbit dogs monkeys maintain feed Growth, Multiplication feed maintain feed Growth, Multiplication feed maintain feed Growth, Multiplication feed maintain feed Growth, Multiplication feed maintain feed Growth, Multiplication feed Water and other Volatiles/g 100 100 110,110,100,100,110 110,100,100,100,100 Crude protein/g 180,200,170,200,200 220,140,170,200,260 160 210 Fat/g 40 40 30 30 3,030,303,045,754,050 Crude fiber / <=50 <=50 100 ~ 100 ~ <=60 <=60 100 ~ 100 ~ <=40 <=30 <=40 <=

40 Crude ash/g 80 80 90 90 8,080,909,090,907,070 Table 1 (continued) index Mice, rats,
guinea pigs hamster rabbit dogs monkeys maintain feed Growth, Multiplication feed
maintain feed Growth, Multiplication feed maintain feed Growth, Multiplication feed maintain
feed Growth, Multiplication feed maintain feed Growth, Multiplication feed maintain feed
Growth, Multiplication feed Calcium/g 10 ~ 10 ~ 10 ~ 10 ~ 10 ~ 10 ~ 10 ~ 10 ~ 7 ~ 10 ~ 8 ~
10 ~ TP/g 6 ~ 6 ~ 5 ~ 5 ~ 6 ~ 6 ~ 5 ~ 5 ~ 5 ~ 8 ~ 6 ~ 7 ~ Calcium. TP

4 Detection

Feed nutrition index detection method according to GB/T 14924.9, GB/T 14924.10, GB/T 14924.11, GB/T 14924.12 execution.

8 Sodium/g >= 2.0 2.0 2.0 3.0 2.0 2.0 2.0 3.0 3.9 4.4 3.0

4.0 Iron/mg >= 100 120 100 150 100 120 100 150 150 250 120 180 Mn/mg >= 75 75 40 60
75 75 40 60 40 60 40

60 Copper/mg >= 10 10 9 14 10 10 9 14 12 14 13

16 Zinc/mg >= 30 30 50 60 30 30 50 60 50 60 110 140 Iodine/mg >= 0.5 0.5 0.4 1.1 0.5 0.5
0.4 1.1 1.4 1.7 0.5