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

GB/T 45103-2024

Nutrient requirements of meat-type ducks

肉鸭营养需要量

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Nutritional requirements of Peking duck	1
5 Nutritional requirements of Muscovy duck	1
6 Nutrient requirements for dual-purpose ducks	2
68 Table A.7 Active ingredient content of commonly used vitamin feed additives for ducks	70

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document was proposed by the Ministry of Agriculture and Rural Affairs of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Animal Husbandry Standardization (SAC/TC274). This document was drafted by: Beijing Animal Husbandry and Veterinary Research Institute of Chinese Academy of Agricultural Sciences, Feed Research Institute of Chinese Academy of Agricultural Sciences, National Animal Husbandry Terminus. The main drafters of this document are. Tang Jing, Xie Ming, Guo Zhanbao, Feng Yulong, Zhu Yongwen, Wu Yongbao, Zhang Yunsheng, Wang Chao, Zhuang Lei, Wei Jie, Zhang Bo, Jiang Yong, Zhao Jiannan, Wang Zhongyan, Zhao Xiaoli, Huang Wei, Zhou Zhengkui, Hou Shuisheng. Nutritional requirements for meat ducks

1 Scope

GB/T 45103-2024 sets the nutrient requirements of meat-type ducks in China. China produces the overwhelming majority of the world's ducks, and the numbers in this document are what every commercial duck ration in the country is formulated against: the requirements for metabolisable energy, crude protein and the individual amino acids, the macro and trace minerals and the vitamins, given by duck type and by age or production stage. It covers the Pekin duck, the Muscovy and the dual-purpose types separately, because they differ enough in growth rate and body composition that one set of figures will not serve. Clause 7 and the informative annex then give what a nutritionist needs to turn

those requirements into a feed: the list of ingredients commonly used, their composition and nutritive value, the characteristics and energy values of the oils and fats, the crude protein equivalent, amino acid content and energy value of the amino acid additives, and the mineral element content of the macro-mineral feeds. For a feed company, an integrator or a nutritionist working in China, this is the reference.

This document specifies the nutrient requirements for Peking ducks, their complementary strains, Muscovy ducks and dual-purpose ducks. This document is applicable to the formulation of meat duck feed in feed production enterprises and various types of farms (households). The formulation of feed for semi-Muscovy ducks shall refer to that for Muscovy ducks.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 10647 Terminology of feed industry

NY/T 823 Terminology and measurement methods for poultry production performance

3 Terms and definitions

The terms and definitions defined in GB/T 10647 and NY/T 823 and the following apply to this document.

3.1 Nutritional requirements The minimum amount of nutrients an animal requires to maintain normal physiological activities, body health and achieve specific production performance.

3.2 meat-type duck Duck breeds (complementary lines) used to provide meat products.

Note. Includes Peking duck and its matching system (referred to as Peking duck), dual-purpose duck, Muscovy duck and semi-Muscovy duck.

3.3 Based on the duck digestive tract enzyme spectrum, the bionic digestive fluid was prepared. After the feed raw materials were digested in the artificial duck digestive tract environment, the feed could be reduced to The energy value of the digested residue after total energy.

4 Nutritional requirements of Peking duck

4.1 The nutritional requirements of commercial Peking ducks should meet the requirements

of Table 1 and Table 2 to achieve the production performance of Table 3.

4.2 The nutritional requirements of Beijing duck breeder ducks should meet the requirements of Tables 4 to 7 to achieve the production performance of Tables 8 and 9.

5 Nutritional requirements of Muscovy duck

5.1 The nutritional requirements of commercial Muscovy ducks should meet the requirements of Table 10 and Table 11 to achieve the production performance in Table 12.

5.2 The nutritional requirements of Muscovy duck breeders should meet the requirements of Table 13 and Table 14 to achieve the production performance of Table 15 and Table 16.