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

GB/T 9695.11-2008

Replacing GB/T 9695.11-1988

**Meat and meat products -- Determination of nitrogen content
(English Translation)**

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Foreword

GB/T 9695 consists of the following components.

- GB/T 9695.1 "Meat and meat products - Determination of free fat";
- GB/T 9695.2 "Meat and meat products - Determination of fatty acid";
- GB/T 9695.3 "Meat and meat products - Determination of iron content";
- GB/T 9695.4 "Meat and meat products - Determination of total phosphorus content";
- GB/T 9695.5 "Meat and meat pH measurement";
- GB/T 9695.6 "meat Carmine colorant determination";
- GB/T 9695.7 "Meat and meat products - Determination of total fat content";
- GB/T 9695.8 "Meat and meat products - Determination of chloride content";
- GB/T 9695.9 "Meat and meat products polyphosphate determination";
- GB/T 9695.10 "meat and meat products BHC and DDT residues determination";
- GB/T 9695.11 "Meat and meat products - Determination of nitrogen content";
- GB/T 9695.13 "Meat and meat products - Determination of calcium content";
- GB/T 9695.14 "meat starch content determination";
- GB/T 9695.15 "Meat and meat products - Determination of moisture content";
- GB/T 9695.17 "Meat and meat products - Determination of glucono-lactone -delta-content";
- GB/T 9695.18 "Meat and meat products - Determination of ash";
- GB/T 9695.19 "Meat and meat sampling method";

- GB/T 9695.20 "Meat and meat products - Determination of zinc";
- GB/T 9695.21 "Meat and meat products - Determination of magnesium content";
- GB/T 9695.22 "Meat and meat products - Determination of copper content";
- GB/T 9695.23 "Meat and meat products - Determination of hydroxyproline content";
- GB/T 9695.24 "Meat and meat cholesterol content determination";
- GB/T 9695.25 "Meat and meat products - Determination of vitamin PP";
- GB/T 9695.26 "Meat and meat products - Determination of vitamin A content";
- GB/T 9695.27 "Meat and meat products - Determination of vitamin B1";
- GB/T 9695.28 "Meat and meat products - Determination of vitamin B2";
- GB/T 9695.29 "Meat vitamin C content determination";
- GB/T 9695.30 "Meat and meat products - Determination of vitamin E content";
- GB/T 9695.31 "Meat total sugar content determination." this section GB/T Part of 119,695.

This part of ISO 937 to modify the use of. 1978 "Meat and meat products - Determination of nitrogen content" (in English).

This part of ISO 937. 1978 Main technical modifications compared as follows.

- Increase Normative references GB/T 6682-2008 and GB/T 601;
 - Reagent water requirement was changed to "shall comply with GB/T 6682-2008 in three water requirements.";
 - With GB/T 9695.19 instead of ISO 3100;
 - The formula " $X_1 = 0.014 \times (V_p - V_0)$ " "Was changed to" $X_1 = 0.014 \times (V_p - V_0)$. "
- According to GB/T 1.1-2000 "Standardization Guide Part 1. Standard structure and writing rules" and GB/T 20001.4-2001 "Rules for drafting standards - Part 4. Chemical analysis methods" to ISO 937. 1978 main editorial carried Modify as follows.
- Delete ISO 937. 1978 Foreword;
 - With "this Part" instead of "this International Standard";
 - By decimal points instead of ISO 937. 1978 as a decimal point, "";
 - The formula increases the number.

This Part replaces GB/T 9695.11-1988 "Meat and meat products - Determination of nitrogen." this portion of the GB/T 9695.11-1988 compared to the main changes are as follows.

--- According to GB/T 1.1-2000 and GB/T 20001.4-2001 been restructured and editorial changes;

--- According to GB/T 1.1-2000, delete the English name of "Methodfor";

--- Chapter 2 adds GB/T 6682-2008 normative references;

--- Chapter 4, "the reagents were of analytical grade, water is distilled water or equivalent purity" to "unless otherwise specified, the test Agents were of analytical grade, "added the method of preparation portion of the solution, increasing the provision." 4.1 Water. should be consistent with GB/T 6682-2008 three water requirements. ";

--- With "9 Precision" and its contents instead of "9 to allow poor" and its contents;

--- Added "Test Report" chapter.

This part of the National Standardization Technical Committee of poultry meat products and centralized.

This section is drafted. Shenzhen Academy of Metrology and Quality Inspection, China Chamber of Commerce Business Standard Centre.

1 Scope

GB/T 9695 provisions of this part of the meat and meat products Determination of nitrogen content.

This section applies to the determination of nitrogen content in meat and meat products.

2 Normative references

The following documents contain provisions which, through reference to GB/T 9695 to the present, 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.

Preparation of GB/T 601 chemical reagent standard titration solution GB/T 6682-2008 analytical laboratory use specifications and test methods (ISO 3696. 1987, MOD) GB/T 9695.19 Meat and meat products - Sampling Methods Principle 3 Copper sulfate is catalyzed by sulfuric acid digestion of the sample, so that the decomposition of organic nitrogen, combined with the decomposition of ammonia to form ammonium sulfate. Sulfur Distillation ammonium basified with an excess of boric acid solution absorption, titrated with hydrochloric acid standard solution of ammonia absorbed. According to the consumption of hydrochloric acid, Calculate the amount of nitrogen in the sample.

4 Reagents

Unless otherwise specified, the reagents were of analytical grade.

4.1

Water. should be consistent with GB/T 6682-2008 in three water requirements.

4.2

copper sulfate pentahydrate.

4.3

anhydrous potassium sulfate.

4.4

of concentrated sulfuric acid ($\rho_{20} \sim 1.84 \text{g/mL}$).

4.5

Sodium hydroxide solution. Weigh 500g of sodium hydroxide in 2L beaker with constant stirring dissolved in water and diluted to 1000mL, turn Move plastic bottle store.

4.6

Boric acid solution. Weigh 40g of boric acid dissolved in 1000mL water.

4.7 0.1mol/L hydrochloric acid standard solution. According to GB/T 601 was prepared.

4.8

mixed indicator. Weigh 0.2g of methyl red and methylene blue 0.1g in 95% ethanol, diluted to 100mL, stored in brown Bottle.

5 Apparatus

5.1

commonly used laboratory equipment.

5.2

meat grinder. pore size of not more than 4mm.

5.3

Kjeldahl flask. 500mL.

5.4

Nitrogen distillation apparatus.