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

GB/T 9695.26-2008

Replacing GB/T 9695.26-1991

Meat and meat products -- Determination of vitamin A content

肉与肉制品 维生素A含量测定

(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 9695 of Part 26.

This Part replaces GB/T 9695.26-1991 "Meat and meat products - Determination of vitamin A content." this section compared with the GB/T 9695.26-1991 The main changes are as follows.

- 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 method" has been restructured and text modify;
- Increase "calibration standard solution";
- Added "Sample Preparation" chapter;
- In the "measured" section, added "column temperature", "parallel test" and "blank";
- In "Vitamin A standard solution curve drawing", the series drawn by the injection volume by modifying the standard curve concentration series drawing standard Standard curve, formulas were adjusted accordingly;
- With Chapter 10, "precision" and its contents instead of Chapter 9, "allows poor" and its contents;
- Added "Test Report" chapter;
- Increase the informative Appendix A.

Appendix A of this section is an informative annex.

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

This section drafted by. China Chamber of Commerce Business Standard Centre, the National Food Quality Supervision and Inspection Center Processing (Guangzhou),

Guangzhou Product Quality Supervision, Inspection, Zhejiang Institute of Quality and Technical Supervision and Inspection.

1 Scope

GB/T 9695 provisions of this part of the determination of meat and meat products in vitamin A content.

This section applies to the determination of vitamin A content of the meat with the meat.

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.

GB/T 6682-2008 analytical laboratory use specifications and test methods (ISO 3696. 1987, MOD) Principle 3 After saponification the sample with petroleum ether extract unsaponifiable vitamin A, and concentrated by high performance liquid chromatography with fluorescence detector at an excitation wavelength 340nm, emission wavelength of 460nm at the determination of vitamin A, vitamin A content in the sample calculation by external standard method.

4 Reagents

Unless otherwise specified, the reagents were of analytical grade.

4.1

Water. Water line with a GB/T 6682-2008 requirements.

4.2

ethanol.

4.3

over anhydrous sodium sulfate.

4.4

isopropanol.

4.5

petroleum ether. boiling range 30 °C ~ 60 °C.

4.6

Methanol. After using chromatography or distilled.

4.7

potassium hydroxide solution (Ba = 500g/L). Weigh 50g of potassium hydroxide, dissolved in water and diluted with water to 100mL.

4.8

ascorbic acid solution (Ba = 100g/L). Weigh 10g ascorbic acid (vitamin C), dissolved in water and diluted with water to 100mL.

4.9

Vitamin A standard substance. retinol or retinyl esters.

4.10

Vitamin A standard solution.

4.10.1

Standard stock solution (Ba ~1000µg/mL).

4.10.1.1

if the standard substance (4.9) as retinol, is said to take 50.0mg, dissolved in isopropyl alcohol, 50mL brown capacity at constant volume Bottle. Stored at 4 °C.

Before use with UV spectrophotometer calibrated according to the concentration of 4.10.3.

4.10.1.2

if the standard substance (4.9) for the retinol esters said to take the standard substance 50.0mg, by 8.1 to 8.3 for saponification, Extraction, concentration, dissolved in isopropanol, set the volume to 50mL brown volumetric flask. Stored at 4 °C.

Before use with UV spectrophotometer calibrated according to the concentration of 4.10.3.

4.10.2

standard working solution. isopropanol calibrated standard concentration of stock solution (4.10.1) diluted working standard solution required.

Pro preparation before use.