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

GB/T 9825-2008

Replacing GB/T 9825-1988

**Oilseed residues -- Determination of ash insoluble in
hydrochloric acid**

油料饼粕盐酸不溶性灰分测定

(English Translation)

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Table of Contents

Foreword
1 Scope
2 Normative references
3 Definition
4 Principle
5 Reagent
6 Instruments and appliances
7 Operating procedures

Foreword

This revised standard adopts ISO 735. 1977 "Determination of insoluble cake of hydrochloric acid in oil cake" (in English).

The main technical differences between this standard and ISO 735. 1977 are as follows.

- Increasing the reagent preparation method;
- 6.4 amendments to the requirements of Ma Fu furnace;
- The 7.2 "in two consecutive weighing difference is less than or equal to 0.001g" was revised to "the difference between two consecutive weighing less than or equal to 0.002g";
- 8.1.2 hydrochloric acid insoluble ash dry basis timing formula was integrated.

For ease of use, this standard made the following editorial changes.

- "This International Standard" be replaced by "this standard";
- Use the decimal point "." Instead of as a decimal point comma ",";
- Removed the foreword of international standards.

This standard replaces GB/T 9825-1988 "Determination of insoluble cake of hydrochloric acid cake oil." this standard compared with GB/T 9825-1988 main changes are as follows.

- Added "normative references" and "test report" item;
- Increasing the requirements of the results of the judgment;
- Standardize the value, quantity and units of expression used;
- The 7.2 "in two consecutive weighing difference is less than or equal to 0.001g" was

revised to "the difference between two consecutive weighing less than or equal to 0.002g".

This standard proposed by the State Food Administration.

This standard by the National Grain and Oil Standardization Technical Committee.

This standard was drafted. Hubei Entry-Exit Inspection and Quarantine of the People's Republic of China.

1 Scope

This standard specifies the method of determination of insoluble ash content in oil cake.

This standard applies to the press method or leaching method Extraction of oil from the oil, the cake (except for the composite product) hydrochloric acid insoluble ash content Determination.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. All dated references, which are subsequently owned Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to reach an agreement based on this standard research Whether you can use the latest versions of these files. For undated references, the latest version applies to this standard.

GB/T 6682 analytical laboratory water specifications and test methods (GB/T 6682-2008, ISO 3696. 1987, MOD) GB/T 9824 Determination of total ash content in oil cake (GB/T 9824-2008, ISO 749. 1977, Oilseedresidues-Determinationoftotalash, MOD) GB/T 10358 Determination of moisture content and volatile matter content of oil cake (GB/T 10358-2008, ISO 771. 1977, IDT)

3 Definition

The following terms and definitions apply to this standard.

Under the operating conditions described in this standard, the total ash after treatment with hydrochloric acid retained insoluble parts.

4 Principle

The total ash is treated with hydrochloric acid to remove the soluble fraction, and the undissolved residue is then burned and weighed.

5 Reagent

Unless otherwise specified, the reagents used are of analytical grade. The water used shall meet the requirements of Class III water in GB/T 6682.

5.1 3mol/L hydrochloric acid solution. amount of concentrated hydrochloric acid 27mL, diluted with water to 100mL.

5.2 10g/L silver nitrate solution. Weigh silver nitrate 1.0g, dissolved in water and diluted to 100mL, mix well, protected from light.

6 Instruments and appliances

6.1

Analytical Balance. Dividing value 0.1mg.

6.2

Flat-bottomed ashing dish. diameter of about 60mm, height not exceeding 25mm, the material is platinum, alloy, quartz or porcelain.

6.3

Quantitative filter paper. medium speed, ash-free.

6.4

Mufu furnace. temperature control at $550\text{ }^{\circ}\text{C} \pm 15\text{ }^{\circ}\text{C}$.

6.5

Dryer. Contains effective desiccant.

7 Operating procedures

All weighing should be accurate to 0.001g.