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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

ICS 67.240
X 04

GB/T 22460-2008 / ISO 15305:1998

**Animal and vegetable fats and oils -
Determination of Lovibond colour**

动植物油脂 罗维朋色泽的测定
(ISO 15305:1998 IDT)

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Standardization Administration of the PRC.**

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Foreword

This standard equivalently adopts ISO 15305:1998 "Animal and vegetable fats and oils - Determination of Lovibond colour" (English version).

For ease of use, this standard has also made the following editorial changes:

- Delete the foreword of the international standard;
- Change the term "this International Standard" to "this Standard";
- Use decimal point "." to replace the comma "," in the original text, which acts as a decimal point.

Compared with previous GB/T5525-1985 "Inspection of vegetable oils -- Methods for identification of transparency, colour, odour and taste", the main changes of this standard are as follows:

- For the Lovibond colorimeter method, ADD the method's scope of application, principle, operator requirements, sampling, sample preparation, result presentation, precision, test report, and the applicable instruments of this method;
- DELETE the potassium dichromate solution colorimetry method. When adopting to use the standard color-value series prepared by strong acid, there are unsafe factors for this method. Due to the popularity of Lovibond colorimeter method, the potassium dichromate solution colorimeter method is no longer used in all oil and fat product standards.

Appendix A of this standard is informative.

This standard was proposed by the National Grain Administration.

This standard shall be under the jurisdiction of the National Cereals and Oils Standardization Technical Committee.

Responsible drafting organizations of this standard: National Grain Administration Research Institute, Henan University of Technology, Xi'an Oil Research Institute of National Grain Administration.

The main drafters of this standard: Xue Yalin, Zhou Xianqing, Zhang Yurong, Zhang Lei.

Animal and vegetable fats and oils - Determination of Lovibond colour

1 Scope

This standard specifies the method for determination of Lovibond color for animal and vegetable fats and oils.

This standard applies to the determination of the color of animal and vegetable fats and oils.

2 Normative references

The clauses in the following documents have become the clauses of this standard through the quotation in this standard. For dated reference documents, all subsequent amendments (excluding corrigendum) or the revisions do not apply to this standard. However, the parties are encouraged to reach an agreement based on this standard to study if the latest version of these documents can be used. For undated reference documents, the latest version is applicable to this standard.

GB/T 15687 Oils and fats -- Preparation of test sample (GB/T 15687-1995, eqv ISO 661:1989)

3 Principle

The colour of the light transmitted through a known path length of liquid fat or oil is matched with the colour of the light originating from the same source transmitted through glass colour standards. The results are conventionally expressed in Lovibond units.

4 Apparatus

Usual laboratory apparatus and, in particular, the following.

4.1 Colorimeter

The Lovibond Universal tintometers Model F (BS684) and Model F/C are

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