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

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Essential oil of rose(Rosaxdamascena Miller)

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Table of Contents

foreword

1 Scope

2 Normative references

3 Terms and Definitions

4 requirements

4.1 Appearance. light yellow liquid, sometimes with crystallization.

4.2 Fragrance. rose fragrance.

4.3 Relative density (25°C/25°C). 0.838~0.851.

4.4 Refractive index (25°C). 1.4557~1.4606.

4.5 Optical rotation (25°C). -3.8°~-1.7°.

4.6 Freezing point. 19.6 degrees C~23.4 degrees C.

4.7 Ester value. 5.2~14.9.

4.8 Characteristic component content (GC). see Table 1.

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.

This document is modified to adopt ISO 9842.2003 "Rose Essential Oil (Damascena)".

Compared with ISO 9842.2003, this document has made the following structural adjustments.

---Chapter 4 corresponds to Chapter 4 in ISO 9842.2003, where 4.1 corresponds to 4.1~4.2 in ISO 9842.2003, adding 4.8,

Deleted 4.9~4.10 of ISO 9842.2003;

---Chapter 5 corresponds to Chapter 6 in ISO 9842.2003, which adds 5.1~5.2;

---Chapter 6 corresponds to Chapter 5 in ISO 9842.2003, which adds 6.1~6.2 and 6.4~6.5;

--- Deleted Appendix B in ISO 9842.2003.

The technical differences between this document and ISO 9842.2003 and their reasons are as follows.

---Changed the origin of rose essential oil (Damascena), determined to be made in China (see Chapter 1, Chapter 1 of ISO 9842.2003), to

disambiguation;

--- Regarding the normative reference documents, this document has made adjustments with technical differences to adapt to the technical conditions of our country, specific adjustments

as follows.

* Replaced ISO 279 (see 5.3) with GB/T 11540, which was modified to adopt international standards, and GB/T 14454.4 replaced

ISO 280 (see 5.4), GB/T 14454.5 replaced ISO 592 (see 5.5), GB/T 14454.7 replaced ISO 1041

(see 5.6), GB/T 14455.6 replaced ISO 709 (see 5.7);

* Replaced ISO 7609 (see 5.8) with GB/T 11538-2006, which is equivalent to adopting international standards, and replaced GB/T 26515.1

ISO 11024-1 (see 5.8.3);

* Deleted ISO /T R210 (see Chapter 7 of ISO 9842.2003), ISO /T R211 (see Chapter 7 of ISO 9842.2003

Chapter 7), ISO 212 (see Chapter 5 of ISO 9842.2003), ISO 11024-2 (see 6.6 of ISO 9842.2003);

* Added GB/T 14454.2 (see 5.2), GB/T 11538-2006 (see 5.8);

---Changed the physical and chemical indicators, deleted 4.9~4.10 in ISO 9842.2003, relative density 0.848~0.880 (20 degrees C/

20 degrees C) to 0.838~0.851 (25 degrees C/25 degrees C), and the refractive index 1.4520~1.4700 (20 degrees C) to 1.4557~

1.4606(25 degrees C), optical rotation -5°~-1.8°(20 degrees C) changed to -3.8°~-1.7°(25 degrees C), freezing point 16 degrees C~

23.5°C was changed to 19.6°C~23.4°C, ester value 7~24 was changed to 5.2~14.9, and the content of characteristic components was changed (see 4.3~

4.8, see 4.4~4.8 of ISO 9842.2003), based on the measured data of rose essential oil (Damascena) produced in China, improve

Operability;

--- Added the test of color (see 5.1) to improve the operability of the judgment;

--- Increased inspection rules (see Chapter 6) to enhance practicality;
--- Changed the requirements for marking, packaging, transportation, storage and shelf life (see Chapter 7, see Chapter 7 of ISO 9842.2003) to improve
Improve feasibility.

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the requirements, test methods, inspection rules and signs, packaging, transportation, storage and shelf life.

This document is applicable to the analysis and evaluation of the quality of rose essential oil (Damascena) (Rosaxdamascena Miler) produced in China.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

GB/T 11538-2006 General method for capillary gas chromatography analysis of essential oils (ISO 7609.1985, IDT)

GB/T 11540 Determination of relative density of spices (GB/T 11540-2008, ISO 279.1998, MOD)

GB/T 14454.2 Fragrance Aroma Evaluation Method

GB/T 14454.4 Determination of Refractive Index of Fragrances (GB/T 14454.4-2008, ISO 280.1998, MOD)

GB/T 14454.5 Determination of optical rotation of spices (GB/T 14454.5-2008, ISO 592.1998, MOD)

GB/T 14454.7 Determination of freezing point of spices (GB/T 14454.7-2008, ISO 1041.1973, MOD)

GB/T 14455.6 Determination of ester value or ester content of fragrances (GB/T 14455.6-2008, ISO 709.2001, MOD)

GB/T 26515.1 General guidelines for gas chromatographic images of essential oils Part
1.Establishment of gas chromatographic images in standards

(GB/T 26515.1-2011, ISO 11024-1.1998, IDT)

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

Essential oil extracted by steam distillation from the flowers and buds of rose (*Rosa x damascena* Miler).