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

GB/T 12652-2013

Replacing GB/T 12652-2002

Oil of Mentha arvensis, partially dementholized

亚洲薄荷素油

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard replaces GB/T 12652-2002 "Asian peppermint oil." This standard compared with GB/T 12652-2002, the main changes as follows.

--- Acid value by the " ≤ 1 " to " ≤ 1.5 " (see 4.7, 2002 Version 4.8.);

--- Remove the carbonyl value (2002 Version 4.11);

--- "Chromatographic ingredient" is replaced by "Menthol" Menthol from "33% to 45%" with "30.0% to 45.0%" (see . 4.10, 2002 edition 4.12);

--- "Chromatographic components" to "Asian representative and characteristic of peppermint oil component content" and placed in Appendix B. Wherein oct-3 Alcohol content from "0.5% to 3%" with "0.3% to 3.0%", limonene content from "1.5% to 4%" to "1.5% 7.0% ", menthone content from " 18% to 30% "with" 17.0% to 30.0%, "iso-menthone content from" 8% to 12% "to change to "6.0% to 12.0%", menthol content from "33% to 45%" with "30.0% to 45.0%", the content pulegone "0.5% to 2.5%" with "0.5% to 3.0%", menthyl acetate content from "1.5% to 4%" to "1.5% to 6.0%," beta- caryophyllene from "0.5% to 2%" to "0.3% to 2.0%" (see Appendix B, 2002 edition 4.12).

The standard reference method using redrafted ISO 9776:1999 "Asian peppermint oil," written and ISO 9776:1999 process consistency Degree is not equivalent.

This standard and ISO 9776:1999 The main difference is as follows.

--- Acid value by the " ≤ 1 " to " ≤ 1.5 " (see 4.7);

--- Total alcohol content from "40% to 60%" to " $\geq 50\%$ " (see 4.9);

--- Remove the carbonyl value;

--- Octanol -3 levels ranging from "0.5% to 3%" with "0.3% to 3.0%", limonene content from "1.5% to 4%" to "1.5% 7.0% ", menthone content from " 18% to 30% "with" 17.0% to 30.0%,

"iso-menthone content from" 8% to 12% "to change to "6.0% to 12.0%", menthol content from "33% to 45%" with "30.0% to 45.0%", the content pulegone "0.5% to 2.5%" with "0.5% to 3.0%", menthyl acetate content from "1.5% to 4%" to "1.5% to 6.0%," beta-caryophyllene from "0.5% to 2%" to "0.3% to 2.0%" (see section 4.10 and Appendix B).

The standard proposed by China National Light Industry Council.

This standard by the National Standardization Technical Committee of Fragrance Flavor and Cosmetic (SAC/TC257) centralized.

This standard was drafted. Shanghai Spice Institute, Anhui Fengle spices limited liability company, Nantong Mint Co., Ltd., Shanghai New Ka incense Material Limited.

1 Scope

This standard specifies the Asian peppermint oil requirements, test methods, inspection rules and signs, packaging, transportation, storage and shelf life.

This standard applies to the quality of Asian peppermint oil analysis and evaluation.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 11538-2006 oils by capillary column gas chromatography - General method (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 spice aroma evaluation method GB/T 14454.4 spices refractive index measurement (GB/T 14454.4-2008, ISO 280:1998, MOD) GB/T 14454.5 Determination of spices optical rotation (GB/T 14454.5-2008, ISO 592:1998, MOD) GB/T 14455.3 spices dissolved in ethanol (mixed) to assess the degree (GB/T 14455.3-2008, ISO 875:1999, MOD) GB/T 14455.5 perfume acid value or acid content was measured (GB/T 14455.5-2008, ISO 1242:1999, MOD) GB/T 14455.6 perfume ester value or ester containing an amount of determination (GB/T 14455.6-2008, ISO 709:2001, MOD) GB/T 14455.7-2008 spices after acetylation assessment and determination of ester value of free alcohols and total alcohol content (ISO 1241:1996, ISO 3794. 1976, MOD)

3 Terms and Definitions

The following terms and definitions apply to this document.

Asian peppermint oil oil of *Mentha arvensis*, partially dementholized Bloom or blossom from Asian species of mint (*Mentha arvensis* L. var. *glabrata* Holmes) by steam distillation of the ground portion Points in the essential oil obtained by freezing and then taking off part of menthol prepared Asian peppermint oil.

4 Requirements

4.1

Appearance. almost colorless to amber yellow clear, flowing liquid.

4.2

Aroma. Menthol mint-like characteristic aroma.

4.3

Relative density (20 °C/20 °C). 0.890 ~ 0.908.

4.4

Refractive index (20 °C). 1.4570 ~ 1.4650.

4.5

Optical rotation (20 °C). - 24 ° ~ -15 °.

4.6

miscibility (20 °C). 1 volume of the sample soluble in 4 volumes of 70% (volume fraction) ethanol as a clear solution. Further increase in solvent Sometimes white.