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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YC/T 585-2019

Determination of solid content in extracts and concentrates in the production process of reconstituted tobacco

再造烟叶生产过程萃取液与浓缩液 固形物含量的测定

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009 and GB/T.20001.4-2015.

Please note that certain contents of this document may involve patents. The issuing agency of this document is not responsible for identifying these patents.

This standard was proposed by the State Tobacco Monopoly Administration.

This standard is under the jurisdiction of the National Tobacco Standardization Technical Committee Cigarette Sub-committee (SAC/TC144/SC1).

Drafting organizations of this standard. China Tobacco Anhui Industrial Co., Ltd., China Tobacco Yunnan Industrial Co., Ltd., China Tobacco Yunnan Reconstituted Tobacco Limited Liability Company, Fujian China Tobacco Industry Co., Ltd., Zhengzhou Tobacco Research Institute, China Tobacco Standardization Research Center, Guangdong Golden Leaf Technology Development Co., Ltd., National Tobacco Quality Supervision and Inspection Center, Anhui China Tobacco Reconstituted Tobacco Technology Co., Ltd.

1 Scope

This standard specifies the method for determination of solid content in extracts and concentrates during the production process of reconstituted tobacco.

This standard applies to the determination of solid content in extracts and concentrates during the production process of reconstituted tobacco, including total solids, soluble solids, and insoluble solids.

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2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 6682 Analytical laboratory water specifications and test methods

3 Principle

Take a certain amount of extract or concentrate sample from the production process of reconstituted tobacco and pretreat it with ethanol containing internal standard substance (isopropanol).

The water content of the obtained treated liquid is determined by gas chromatography, and the water content is deducted to be the solid content of the extract or concentrate. Which can Water-soluble substances are soluble solids, water-insoluble substances are insoluble solids, and the sum of soluble solids and insoluble solids is the total solids.

4 Reagent

4.1
The water should meet the requirements of Grade 1 water in GB/T 6682.

4.2
Anhydrous ethanol, the moisture content should be less than 1.0mg/mL.

4.3
Internal standard, isopropanol, with a purity of not less than 99%.

4.4 Pretreatment reagent

Take 12.5mL of the internal standard substance (4.3) and add it to 1L of absolute ethanol (4.2) and mix well.

The pretreatment reagent should be shaken continuously before use to make the moisture even. Pretreatment reagents and test samples used in the preparation of standard working solutions the pretreatment reagent should be the same batch.

4.5 Standard working solution

Accurately weigh a certain amount of water (4.1), accurate to 0.0001g, in a 50mL conical flask with stopper, add 50mL of pretreatment reagent (4.4), Mix well to obtain a series of standard working solutions. The standard working solution should be prepared for immediate use. The quality of the recommended series of standard working solutions is

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shown in Table 1.

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