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White tea origin discrimination - Near infrared spectral method

白茶产地判别 近红外光谱法

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Table of Contents

Preface	III
1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Principle	2
5 Instruments and Equipment	2
6 Establishment and verification of near-infrared spectroscopy model	2
7 Origin determination	3
8 Model Update and Maintenance	3
9 Accuracy of discrimination	3
10 Discrimination Example	4
Appendix A (Informative) Example of Identifying the Origin of Fuding White Tea.....	5

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.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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Determination of origin of white tea by near infrared spectroscopy

1 Scope

This document defines the terms and definitions for the use of near-infrared spectroscopy to identify the origin of white tea, and describes the use of near-infrared spectroscopy to identify the origin of white tea.

Methods for origin identification, including principles, instruments and equipment, establishment and verification of near-infrared spectroscopy models, origin identification, model update and maintenance, and identification accuracy.

This document is applicable to loose white tea products with a single origin, uniform variety, and the same category, and the identification date is no more than three years from the production date.

Identify the origin of the product.

2 Normative references

GB/T 8302

GB/T 8303

GB/T 22291

GB/T 32743

GB/T 37969

3 Terms and Definitions

The terms and definitions defined in GB/T 22291, GB/T 37969 and the following apply to this document.

3.1 Establish an origin discrimination model based on feature information recognition

A certain number of representative white tea samples from different origins were collected, their near-infrared spectral characteristics were extracted, and chemometric methods were used to analyze the characteristics of the white tea.

3.2

Near-infrared spectral scanning was performed on white tea from different origins, and a near-infrared spectral data set library consisting of a certain number of white tea samples was established.

Note. Divided into training set and validation set according to a certain ratio.

3.3 spectral training set

A near-infrared spectral dataset used as a reference benchmark to train the discriminative model.

3.4

A near-infrared spectral data set used to evaluate the accuracy and repeatability of origin discrimination models.