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**The determination of polysaccharides in white jelly fungus - Ion
chromatography**

银耳中银耳多糖的测定方法 离子色谱法

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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 is required.

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.

This document was proposed by the China Federation of Supply and Marketing Cooperatives.

This document is under the jurisdiction of the National Tremella Standardization Working Group (SWG 9).

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Determination Method of Tremella Polysaccharide in Tremella Ion chromatography

1 Scope

This document describes an ion chromatographic method for the determination of Tremella polysaccharide content in Tremella fuciformis.

This document is applicable to the determination of Tremella polysaccharides in Tremella fuciformis.

2 Normative references

GB/T 6682

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Polysaccharides in white jelly fungus

Extracted from the basidiomycete Tremella, the monosaccharides include fucose, galactose, glucose, xylose, mannose, galacturonic acid and glucuronic acid.

A polymer compound formed by the dehydration condensation of units with glycosidic bonds.

[Source. GB/T 35945-2018, 2.1.8.8, modified]

4 Principle

The sample was extracted with water and the Tremella polysaccharide mixture was hydrolyzed with trifluoroacetic acid. The products were separated by anion chromatography column and equipped with a pulsed amperometric The content of Tremella polysaccharide in the sample was calculated based on the peak area of each monosaccharide by using the ion chromatograph of the detector for determination and the external standard method for qualitative and quantitative analysis.

5 Reagents and Materials

Unless otherwise stated, all reagents used in this method were of analytical grade.

5.1 Water. GB/T 6682, Grade 1. 5.2 Nitrogen (N₂). 99.5%.

5.3 Methanol (CH₃OH). chromatographic grade.

5.4 Trifluoroacetic acid (C₂HF₃O₂).

5.5 Sodium hydroxide (NaOH). chromatographic grade.

5.6 Sodium acetate (CH₃COONa). chromatographic grade.

5.7 Fucose standard ($C_6H_{12}O_5$, CAS No.. 2438-80-4). purity not less than 98%, or equivalent standard substance/standard sample.

5.8 Galactose standard ($C_6H_{12}O_6$, CAS No.. 59-23-4). purity not less than 98%, or equivalent standard substance/standard sample.

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