

ICS 85.140

B 47

Record No.: 37255-2012



**SUPPLY AND MARKETING COOPERATIVES
INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC
OF CHINA**

中华人民共和国供销合作行业标准

GH/T 1081-2012

Determination of Poplar Tree Gum in Propolis—

Reversed-phase High Performance Liquid

Chromatography Method

蜂胶中杨树胶的检测方法

反向高效液相色谱法

Issued on July 09, 2012

Implemented on August 01, 2012

Issued by All China Federation of Supply and Marketing Cooperatives

Contents

Foreword	1
Introduction	2
1 Scope	3
2 Normative references	3
3 Terms and definitions	3
4 Principles	4
5 Reagents and materials	5
6 Instruments and devices	5
7 Sampling and sample handling	6
8 Test method	6
Annex A (Normative) High Performance Liquid Chromatography Gradient Elution Conditions	9
Annex B (Informative) Chromatograms of Salicin Standard, Poplar Type Propolis, Poplar Tree Gum, Propolis Raw Material with 5% Poplar Tree Gum Mixed and Ethanol Extract with 15% Poplar Tree Gum Mixed	10
Annex C (Informative) CCP Determination Conditions Determined by Liquid Chromatography Tandem Mass Spectrometry	13

Foreword

This standard is prepared according to GB/T 1.1-2009 “Directives for Standardization-Part 1:Rules For the Structure and Drafting of Standards”.

This products uses patent 201010180675.0 (application number) .

This standard is proposed by Zhejiang University.

This product is under the jurisdiction of All China Federation of Supply and Marketing Cooperatives.

Drafting units of this standard: Zhejiang University, China Beer Products Association.

Main drafters of this standard: Hu Fuliang, Zhang Cuiping, Zheng Huoqing, Lv Zetian.

Introduction

Issuing organization of this document draws attention to that declaring compliance with this document involves the uses of patent application related to this document (application number: 20101018057.0).

Issuing organization of this document has no standpoint for authenticity, validity and scope of this patent application.

The patent applicant has assured issuing organization of this document of that he is willing to negotiate with any applicant for relevant license authorization under reasonable and non-discriminatory terms and conditions. Statement of the patent applicant has been put on records at issuing authority of this document. Relevant information can be obtained via following contact information.

Patent applicant: Zhejiang University.

Address: No. 866 Yuhangtang Road, Xihu District, Hangzhou City, Zhejiang Province.

Besides paying attention to above-mentioned patent application, certain content of this document may also involve patent. The issuing organization of this document does not assume responsibility for identification of these patents.

Determination of Poplar Tree Gum in Propolis-Reversed-phase High Performance Liquid Chromatography Method

1 Scope

This standard specifies determination method of reversed-phase high performance liquid chromatography on whether propolis contains poplar tree gum.

This standard applies to the determination of poplar tree gum in propolis raw materials and propolis ethanol extract.

In this standard, when injection volume is 5 μL , minimum determination of salicin is 1.3 $\mu\text{g/mL}$. Lower detection limit of poplar tree gum in peropolis raw material is about 5%; lower detection limit of ethanol extract of propolis is about 15%.

2 Normative references

Following documents are indispensable for application of this document. For the dated documents so quoted, only dated versions apply to this document. For the undated documents so quoted, the latest versions (including all modification sheets) apply to this document.

GB/T 6682-2008 Water for analytical laboratory use - Specification and test methods

GB/T 24282-2009 Propolis

3 Terms and definitions

For the purpose of this document, the following terms and definitions apply.

3.1

Propolis

Glutinous substance formed by mixing of resin secretions, etc. collected by worker bees and its palate gland and wax gland secretions, etc.

3.2

Ethanol extracted propolis



北京文心雕语翻译有限公司
Beijing Lancarver Translation Inc.

完整版本请在线下单/Order Checks Online for Full version

联系我们/or Contact:

TEL: 400-678-1309

QQ: 19315219 | Skype: Lancarver

Email : info@lancarver.com

<http://www.lancarver.com>

线下付款方式：

I. 对公账户：

单位名称：北京文心雕语翻译有限公司

开 户 行：中国工商银行北京学清路支行

账 号：0200 1486 0900 0006 131

II. 支付宝账户：info@lancarver.com

III. Paypal: info@lancarver.com

注: 付款成功后，请预留电邮，完整版本将在一个工作日内通过电子 PDF 或 Word 形式发送至您的预留邮箱，如需索取发票，下单成功后的三个工作日内安排开具并寄出，预祝合作愉快！

NOTE All documents on the store are in electronic Adobe Acrobat PDF format, there is not sell or ship documents in hard copy. Mail the order and payment information to info@lancarver.com, you will shortly receive an e-mail confirming your order.

