



QB/T 4256-2011

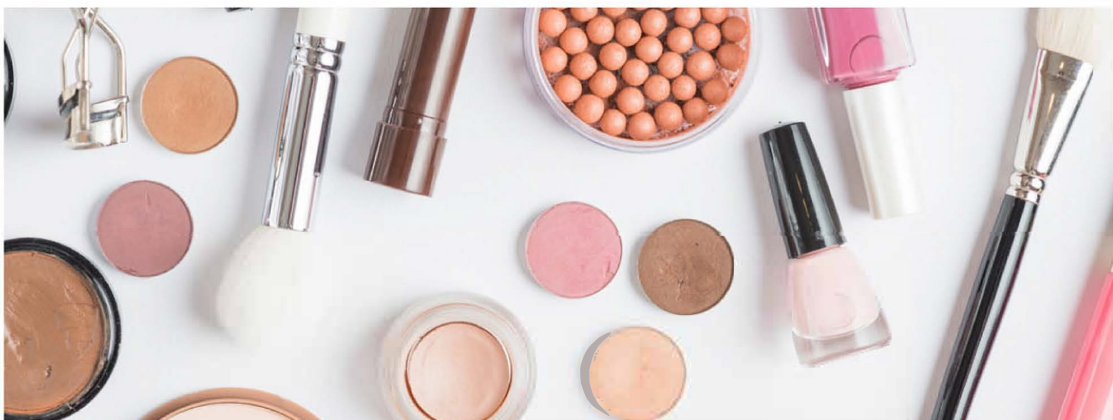
Guideline for Evaluation of Cosmetics Moisturization Efficacy

化妆品保湿功效评价指南

Ministry of Industry and Information Technology
of The People's Republic of China

Release Date: Dec 20, 2011
Implementation Date: Jul 01, 2012

Translated by ChemLinked



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Guideline for evaluation of cosmetics moisturization efficacy

ICS 71.100.70

Classification number: Y42

Recordation number: 34974-2012

QB

Light Industry Standard of the People's Republic of China

QB/T 4256-2011

Guideline for Evaluation of Cosmetics Moisturization Efficacy

Issued on December 20, 2011

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Issued by Ministry of Industry and Information Technology of the People's Republic of
China

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Foreword

This standard was proposed by China National Light Industry Council.

This standard is under the jurisdiction of National Technical Committee 257 on Fragrance Flavour and Cosmetics of Standardization Administration of China (SAC/TC 257).

The main drafting units of this standard are as follows: Beijing Technology and Business University, Chinese Academy of Inspection and Quarantine, General Hospital of the Air Force of the Chinese People's Liberation Army, Shanghai Jahwa United Co., Ltd., L'Oreal (China) Co., Ltd., Unilever (China) Co., Ltd., Amway (China) Commodity Co., Ltd., and Shanghai Daily Chemical Industry Research Institute.

The main drafters of this standard are as follows: Su Ning, Wang Changtao, Dong Yinmao, Liu Juan, Wang Chao, Zhao Hua, and Liu Wei.

Guideline for evaluation of cosmetics moisturization efficacy

1 Scope

This standard specifies a method for evaluation of cosmetics moisturization efficacy - capacitance method for determination of moisture content in skin corneal layer.

This standard applies to the determination of moisturization effect of skin care paste and cream, emulsion and jelly cosmetics. Other kinds of cosmetics claiming to have moisturization efficacy can be evaluated by referring to this standard.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

Hygienic standard for cosmetics

3 Basic Principles

3.1 The tested cosmetics shall be products that pass the physicochemical and hygienic tests. Before human trial, the necessary toxicological tests shall be completed according to the *Hygienic Standard for Cosmetics* and a written certificate shall be issued. The samples that fail the toxicological tests shall not be subject to the human trial.

3.2 The human trial of the moisturization efficacy of cosmetics shall comply with the basic principles of the International Declaration of Helsinki, require the subjects to sign the informed consent and take necessary medical countermeasures to protect the interests of the subjects to the greatest extent.

3.3 The guideline for evaluation of cosmetics moisturization efficacy is applicable to the determination of products before and after use.

4 Principles

The determination of moisture content in human skin corneal layer by the capacitance method is based on the significant difference between the dielectric constant of water and other substances. According to the different moisture content of skin corneal layer, the determined skin capacitance values are different, and the parameters can represent the skin moisture content.

5 Test Conditions and Requirements for Volunteers

5.1 Test environmental conditions

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- + New cosmetic ingredient (NCI) registration and notification
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- + Cosmetic efficacy evaluation



- + Cosmetic formula and label compliance review
- + EDI Notification
- + Cosmetic QC test service
- + Functional cosmetic registration
- + Ingredients registration by ICID



- + Marketing license application
- + Cosmetics notification
- + Ingredients analysis and full ingredient list translation
- + Cosmetic test service
- + Label & advertisement review



- + Responsible Person (RP) service in the EU & UK
- + Cosmetic Product Notification Portal (CPNP)
- + Cosmetic Product Safety Report (CPSR)
- + Preparation of Product Information File (PIF)



- + Cosmetic formula and label compliance review
- + FDA Voluntary Cosmetic Registration Program (VCRP)
- + California Safe Cosmetics Program (CSCP)
- + Toxicological Risk Assessment (TRA)
- + INCI application

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分类号: Y42

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中华人民共和国轻工行业标准

QB/T 4256—2011

化妆品保湿功效评价指南

Guidline for evaluation of cosmetics moisturization efficacy

2011-12-20 发布

2012-07-01 实施

中华人民共和国工业和信息化部 发布

前 言

本标准由中国轻工业联合会提出。

本标准由全国香料香精化妆品标准化技术委员会（SAC/TC257）归口。

本标准主要起草单位：北京工商大学、中国检验检疫科学研究院、中国人民解放军空军总医院、上海家化联合股份有限公司、欧莱雅（中国）有限公司、联合利华（中国）有限公司、安利（中国）日用品有限公司和上海市日用化学工业研究。

本标准主要起草人：苏宁、王昌涛、董银卯、刘娟、王超、赵华、刘玮。

化妆品保湿功效评价指南

1 范围

本标准规定了化妆品保湿功效评价的一种方法——电容法测定皮肤角质层水分含量。

本标准适用于护肤类膏霜、乳液和啫喱化妆品保湿效果的测定，其他类宣称保湿功效的化妆品可参考本标准评价。

2 规范性引用文件

下列文件对于本文件的应用是必不可少的。凡是注日期的引用文件，仅注日期的版本适用于本文件。凡是不注日期的引用文件，其最新版本（包括所有的修改单）适用于本文件。

化妆品卫生规范

3 基本原则

3.1 被测化妆品应为理化和卫生检验合格的产品，人体试验之前应先按照《化妆品卫生规范》完成必要的毒理学检验并出具书面证明，毒理学试验不合格的样品不再进行人体检验。

3.2 化妆品保湿功效的人体试验应符合国际赫尔辛基宣言的基本原则，要求受试者签署知情同意书并采取必要的医学防护措施，最大程度地保护受试者的利益。

3.3 化妆品保湿功效评价指南适用于产品使用前后的测定。

4 原理

采用电容法测定人体皮肤角质层的水分含量是基于水和其他物质的介电常数差异显著，按照皮肤角质层水分含量的不同，测得的皮肤的电容值不同，其参数可代表皮肤水分含量。

5 试验条件和志愿者要求

5.1 测试环境条件

测试环境温度：20℃～22℃，湿度：40%～60%，并且进行实时动态监测。

5.2 志愿者人数

有效志愿者24人～30人。

5.3 志愿者条件

5.3.1 年龄在18岁～65岁之间（妊娠或哺乳期妇女除外）。

5.3.2 前臂测试区域电容法皮肤水分测定仪的基础值在15～45（Corneometer Unit, C.U.）之间，其他电容法测定仪器可用 Corneometer 校正。

5.3.3 无严重系统疾病、无免疫缺陷或自身免疫性疾病者，受试部位没有接受过皮肤治疗、美容以及其他可能影响结果的测试。

5.3.4 无活动性过敏性疾病者。

5.3.5 无体质高度敏感者。

5.3.6 近一月内未曾使用激素类药物及免疫抑制剂者。

5.3.7 现在或最近三个月受试部位未参加其他临床试验者。



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