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BERRY BEVERAGE

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在自然中前行 探寻生发科技

Walking in Nature,
Exploring Hair Growth Technology



1.8亿的人口有掉发困扰 且

180 million people have hair loss problems, and...

脱发族正在年轻化

The hair loss group is getting younger.

21.8% 男生的脱发概率

The probability of hair loss in men

39.1% 民众有掉发困扰

People are troubled by hair loss.

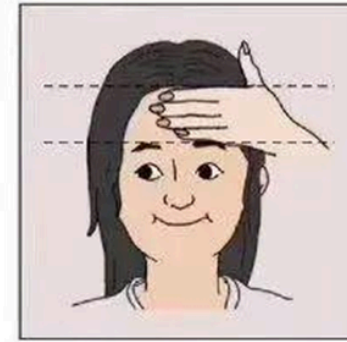
60.3% 30岁前出现脱发征兆在

Signs of hair loss appear before the age of 30 in...

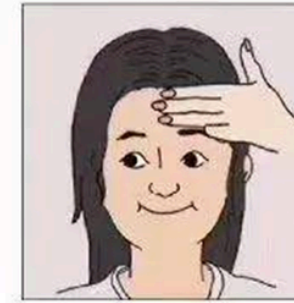
发际线

与

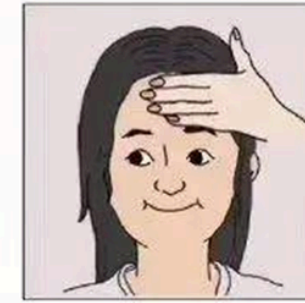
落发



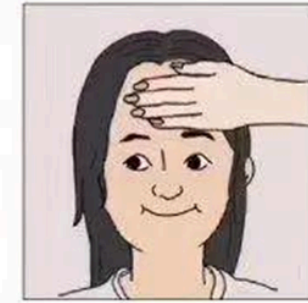
女士测量规则
用手指测量发际线
到眉毛间的距离



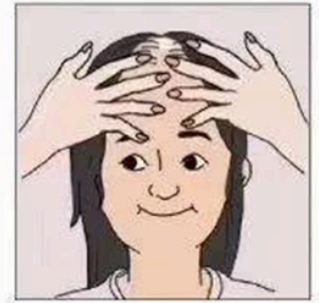
3指
发际线偏低



4指
完美



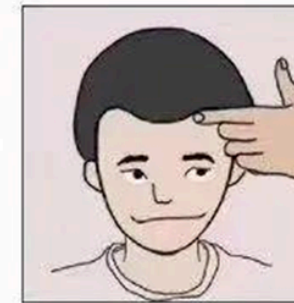
5指
发际线偏高



6指及以上
脱发风险



男士测量规则
用手指测量发际线最低
到发际线最高的距离



1指
完美



2指
轻度脱发



3指
轻度到中度脱发



4指
中等脱发



竖拳
中等到严重脱发



横拳
严重脱发

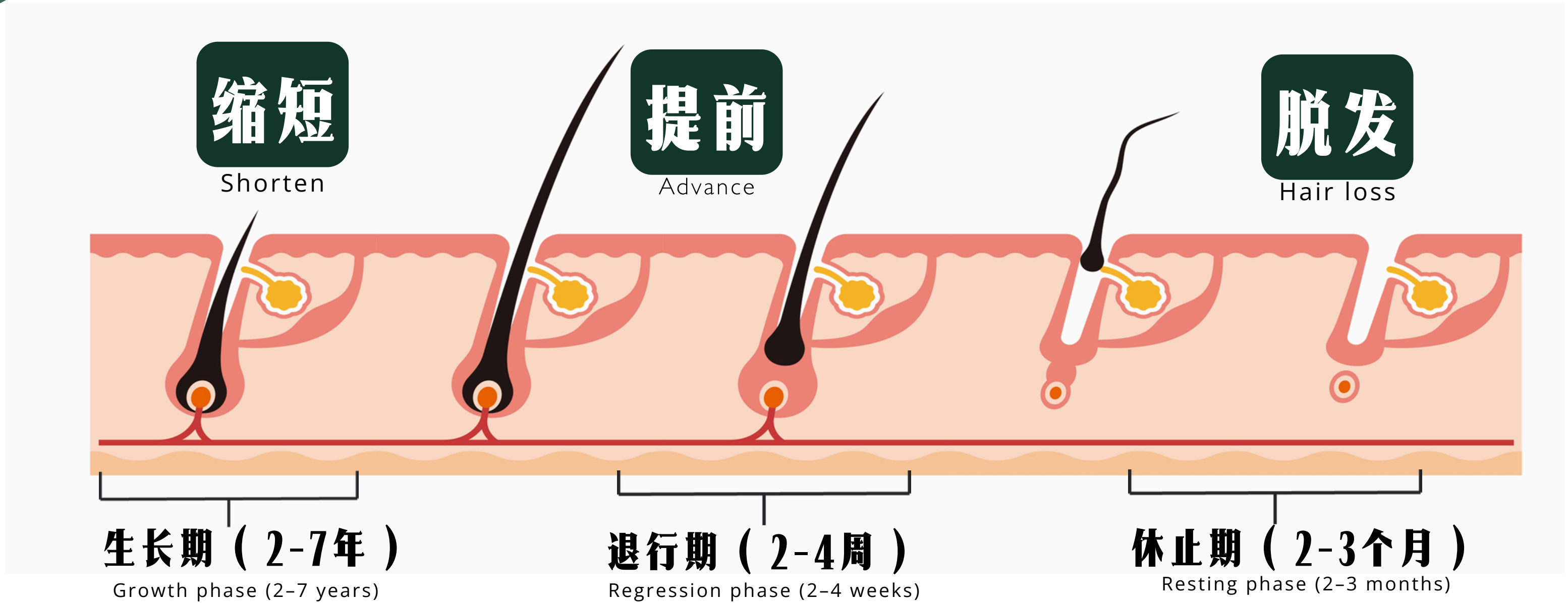


1臂
完全脱发



你的头发毛囊生长周期

The growth cycle of your hair follicles



掉发两大关键因子

TWO KEY FACTORS OF HAIR LOSS

- 荷尔蒙代谢物DHT影响

The impact of the hormone metabolite DHT

DHT为雄性荷尔蒙的代谢产物二氢睾酮，会攻击毛囊，影响毛发蛋白质合成，让头发不健康或脱发，是导致雄性秃掉发的罪魁祸首。

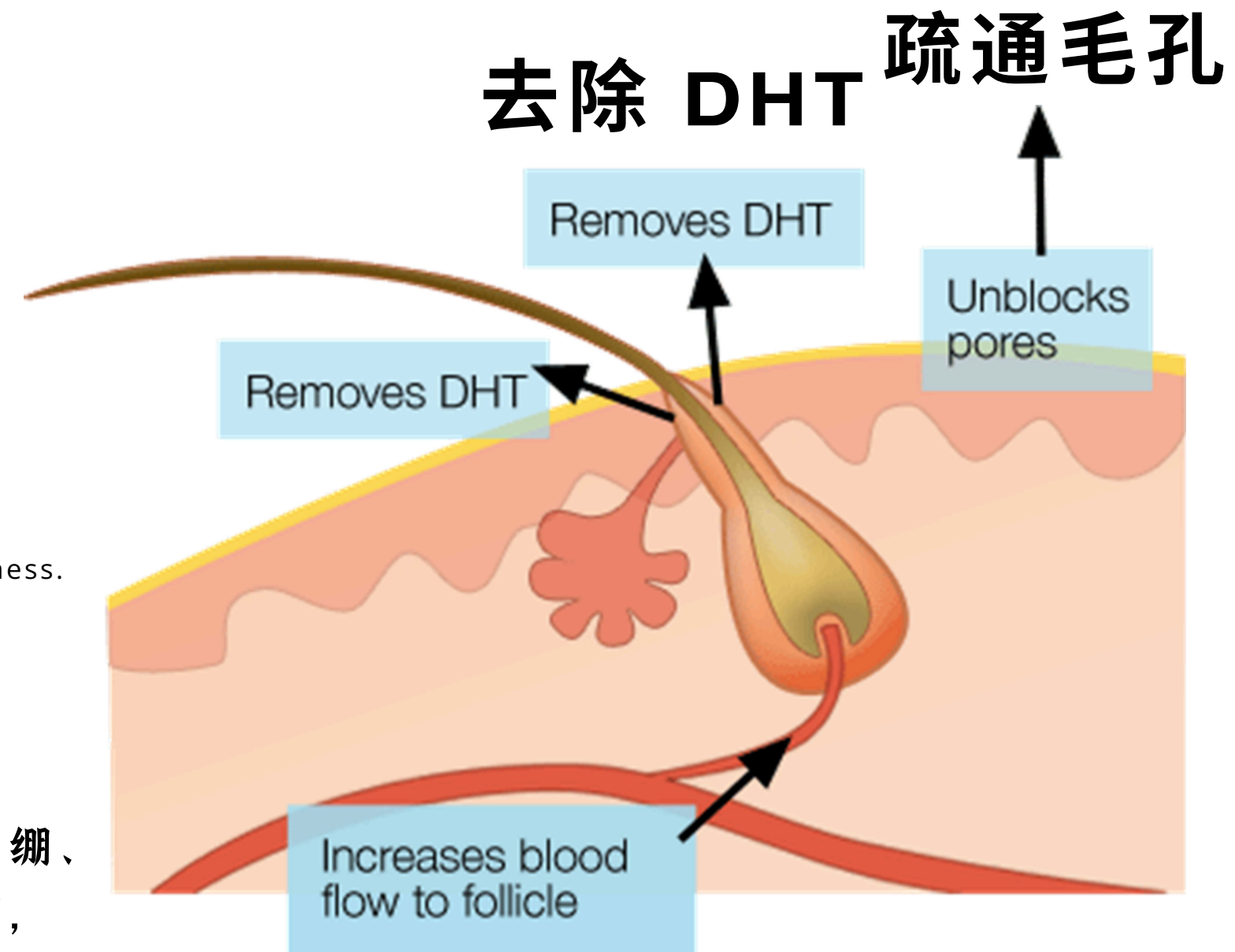
DHT, the metabolic byproduct of male hormones (dihydrotestosterone), attacks hair follicles and affects the synthesis of hair proteins, making hair unhealthy or causing hair loss. It is the culprit behind male pattern baldness.

- 毛囊细胞能量不足

Insufficient energy in hair follicle cells

现代人生活方式改变，来自四面八方的压力，使情绪过度紧绷、缺乏睡眠，头皮血管供给毛囊养分不足，造成毛囊逐渐萎缩，最后导致掉发。

Changes in modern lifestyles and pressure from all directions cause excessive tension and lack of sleep, leading to insufficient nutrient supply from scalp blood vessels to the hair follicles. This results in the gradual shrinkage of hair follicles and eventually causes hair loss.



增加血液流向毛囊

国际文献记载：

Recorded in international literature:

「非那雄胺」

(INN: finasteride)



那些不为人知的 副作用 研究

The little-known side effects studies

Finasteride use in the male infertility population: effects on semen and hormone parameters

非那雄胺，即使是低剂量，也可能导致一些男性精子数量减少

Mary K. Samplaski, M.D.,^a Kirk Lo, M.D.,^{a,b} Ethan Grober, M.D.,^a and Keith Jarvi, M.D.,^{a,b,c}

^a Division of Urology, Department of Surgery, Mount Sinai Hospital, ^b Faculty of Medicine, Institute of Medical Science, University of Toronto, and ^c Samuel Lunenfeld Research Institute, Mount Sinai Hospital, Toronto, Ontario, Canada

Persistent Sexual Side Effects of Finasteride for Male Pattern Hair Loss

治疗男性脱发的医生应讨论与非那雄胺相关的持续性副作用的潜在风险

Michael S. Irwig, MD* and Swapna Kolukula, MB BS†

*Center for Andrology and Division of Endocrinology, The George Washington University, Washington, DC, USA; †Department of Medicine, Greater Baltimore Medical Center, Baltimore, MD, USA

DOI: 10.1111/j.1743-6109.2011.02255.x

A New Look at the 5 α -Reductase Inhibitor Finasteride

据报道，部分患者出现非那雄胺的副作用，这表明在易感人群中使用时非那雄胺可能需要谨慎

Deborah A. Finn, Amy S. Beadles-Bohling, Ethan H. Beckley, Matthew M. Ford, Katherine R. Gililand, Rebecca E. Gorin-Meyer, and Kristine M. Wiren

Persistent Sexual, Emotional, and Cognitive Impairment Post-Finasteride: A Survey of Men Reporting Symptoms

分析中纳入了 131 名服用非那雄胺治疗男性型脱发的一般健康男性 (平均年龄 24 岁) 的反应。最值得注意的发现是，每个领域都存在不良影响，表明可能存在“后非那雄胺综合症”

Christine Anne Ganzer, PhD¹, Alan Roy Jacobs, MD¹, and Farin Iqbal¹

Post-finasteride syndrome: a surmountable challenge for clinicians

基于现有研究，作者认为非那雄胺和度他雄胺在一小部分男性中会引起持续的性、神经和身体不良副作用

Abdulmaged M. Traish, Ph.D.

Department of Urology, Boston University School of Medicine, Boston, Massachusetts

Sexual side effects of 5- α -reductase inhibitors finasteride and dutasteride: A comprehensive review

建议医生在选择非那雄胺治疗之前考虑并讨论可能的性副作用和抑郁风险

Raymond M Fertig¹, A Caresse Gamret¹, Evan Darwin¹, Sudeep Gaudi²

Affiliations: ¹University of Miami, Miller School of Medicine, Department of Dermatology and Cutaneous Surgery, Miami, Florida, ²Pathology and Laboratory Medicine Service, James A Haley VA Hospital, Tampa, Florida

Corresponding Author: Raymond Fertig, 1475 NW 12th Ave, 2nd Floor Miami Florida, 33136, Email: raymondfertig@gmail.com



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每款原料发展过程中平均需进行超过17,700个试验，透过各种自动化平台的导入，研发速度增加70倍。
development process of each raw material, an average of more than 17,700 trials is required. Through the introduction of various automated platforms, the R&D speed has increased by 70 times.



高效萃取制程

High-Efficiency Extraction Process

7道

萃取与生物转化制程

探讨不同萃取制程下

最有效应用方向

Seven Extraction and Biotransformation Processes: Exploring the Most Effective Applications under Different Extraction Methods



细胞功效

精准培养机器人

Cellular Efficacy Precision Culture Robot

190种

细胞功效实验平台评估

190 Types of Cellular Efficacy Evaluation Platforms



全能DNA

挖矿整合模块

All-round DNA Mining Integration Module



高通量调控基因

表现测定

High-Throughput Regulatory Gene Expression Assay

454种

基因表现调控机制探讨

从细胞前处理至RNA

探讨细胞内基因表现

Exploration of 454 Gene Expression Regulatory Mechanisms: From Cell Pretreatment to RNA, Investigating Intracellular Gene Expression



天然物效性成分

定序分析

Sequencing Analysis of Bioactive Components in Natural Products

63种

天然物成分分析

完整解析原料中

关键效性成分

Analysis of 63 Natural Product Components: Comprehensive Identification of Key Bioactive Constituents in Raw Materials



香蕉雄蕊

Banana stamen

极致。新生能量

Ultimate. New Vitality

只为一生一次的美丽绽放

For a Once-in-a-Lifetime Beautiful Bloom

一棵香蕉树的一生只能开一次花，正如上台表演前的舞者，台下累积了十年精华，只为了舞台上那一刻精彩；开花的瞬间，香蕉树将所有的营养及能量倾注于花中，孕育多时的新生能量，仅为了这一生一次地美丽绽放！

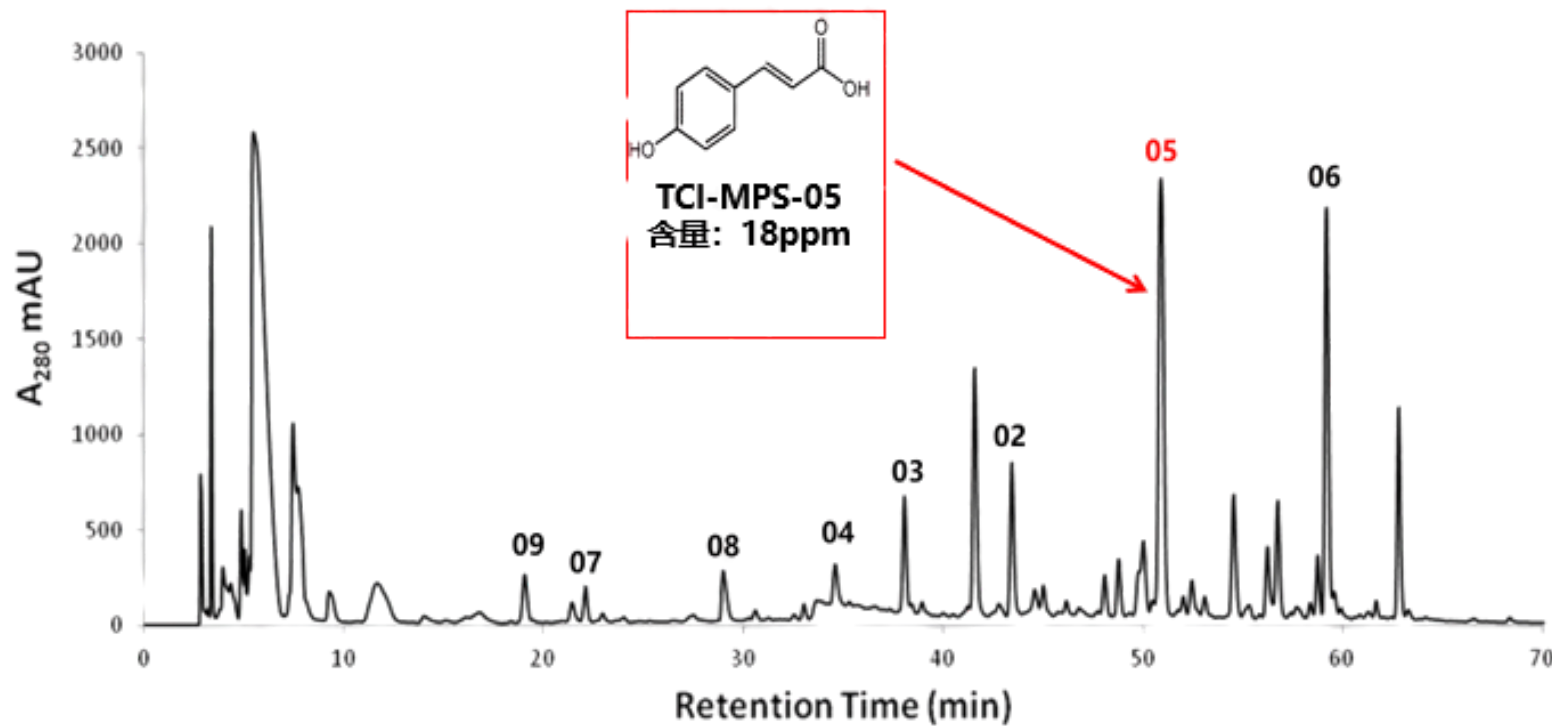
A banana tree can only bloom once in its lifetime, just like a dancer before going on stage, who has accumulated ten years of essence only for that brilliant moment on stage. At the moment of blooming, the banana tree pours all its nutrients and energy into the flower, nurturing new vitality over a long time, solely for this once-in-a-lifetime beautiful bloom!

TCI-MPS-05

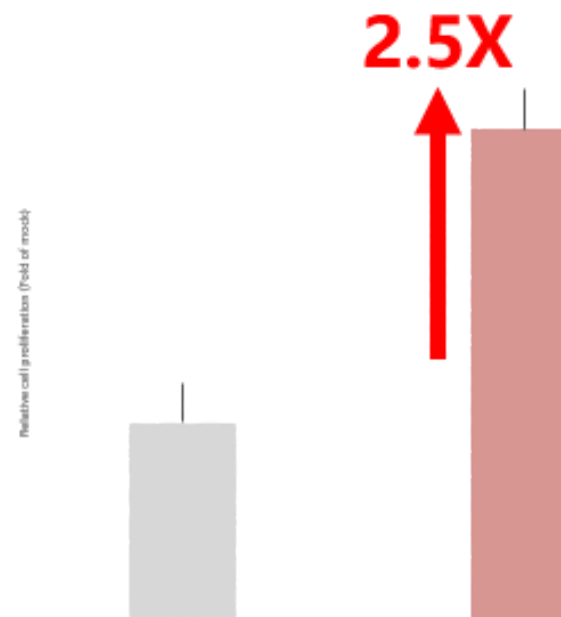
新生酸 COUMMARIC ACID

为香蕉雄蕊萃取中主要的毛囊生长因子，能有效促进毛囊细胞增生达2.5倍，且文献指出香蕉雄蕊提取物可减少血清中二氢睾酮(DHT)的含量，预防掉发。

The main hair follicle growth factor in banana stamen extract can effectively promote hair follicle cell proliferation by up to 2.5 times, and studies have indicated that banana stamen extract can reduce the content of dihydrotestosterone (DHT) in the serum, preventing hair loss.



Compare with Mock: ***, p < 0.001



in vivo J2: xxx-xxx (2018)
doi:10.21873/inivo.11xxx

SECTION FOR THIS PAPER
 Experimental
 Clinical

Banana Flower Extract Suppresses Benign Prostatic Hyperplasia by Regulating the Inflammatory Response and Inducing G₁ Cell-cycle Arrest

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⁸Department of General Surgery, E-Da Hospital, I-Shou University, Kaohsiung, Taiwan, R.O.C.;
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¹⁰Department of Biological Science and Technology, College of Biopharmaceutical and Food Sciences, China Medical University, Taichung, Taiwan, R.O.C.;
¹¹Department of Bioinformatics and Medical Engineering, Asia University, Taichung, Taiwan, R.O.C.

Abstract. Background/Aim: The banana flower is used for ameliorating urinary disturbance. However, there is limited evidence to support the efficacy or mechanism of action of banana flower against benign prostatic hyperplasia (BPH). In the present study, the anti-BPH activity and mechanisms of banana flower extracts were investigated in vitro and in vivo. Materials and Methods: The banana flower extract is a water-soluble extract obtained by sonication. MTT assay was used to examine whether banana flower extract exhibited cytotoxic effects on BPH-1 cells. The effect of banana flower extract on cell-cycle distribution was examined by flow cytometry. The expression of cell-cycle-regulatory molecules was determined by western blot analysis. Testosterone propionate (TP)-induced rat model of BPH was used to evaluate the anti-BPH activity of banana flower extract in vivo. Results: Banana flower extract reduced epithelial cell line BPH-1 cell viability through cell-cycle arrest at G₁ phase. Moreover, banana flower extract reduced the expression of cyclin D1 and cyclin-dependent kinase 6, while it increased the expression of p53 and p27. Interestingly, banana flower extract suppressed BPH-related inflammatory responses through suppressing cyclooxygenase-2 expression and prostaglandin E₂ production. Finally, banana flower extract administered orally to male rats reduced prostatic weight and serum dihydrotestosterone level, and improved prostate gland morphology. High-performance liquid chromatography revealed that banana flower extract contains citric acid, ascorbic acid, pantothenic acid and nicotinic acid components. In summary, banana flower extract may be used as a therapeutic agent for BPH via anti-proliferative and anti-inflammatory activities.

This article is freely accessible online.

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Benign prostatic hyperplasia (BPH), an enlarged prostate gland, is the most common urological disease affecting about 50% of men aged over 50 years (1-3). Moreover, more than half of

Key Words: Banana flower extract, Benign prostatic hyperplasia, G₀/G₁ arrest, cyclooxygenase-2, prostaglandin E₂.

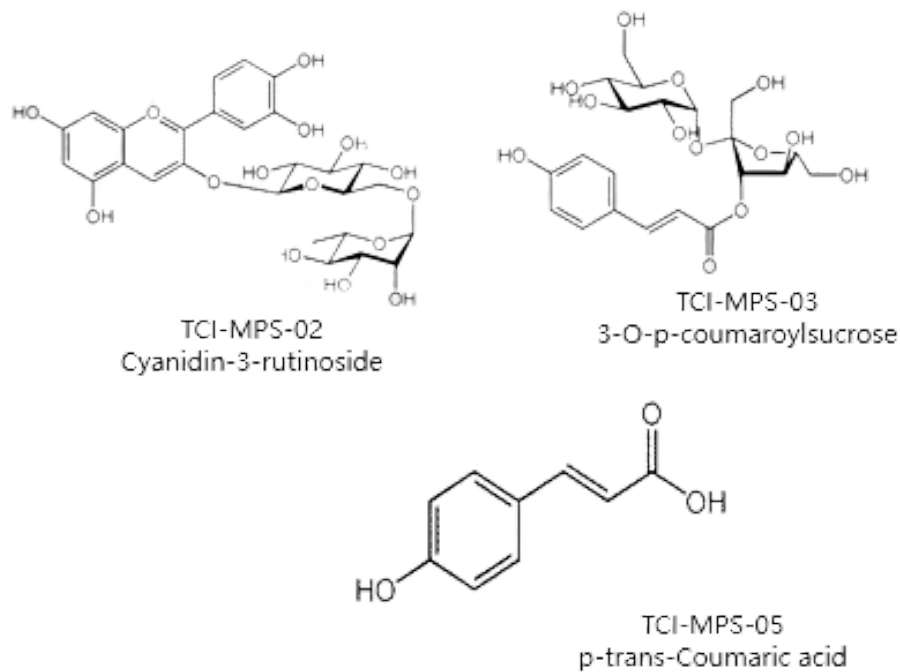




要比，就跟最强的比

If you want to compare, compare with the strongest.

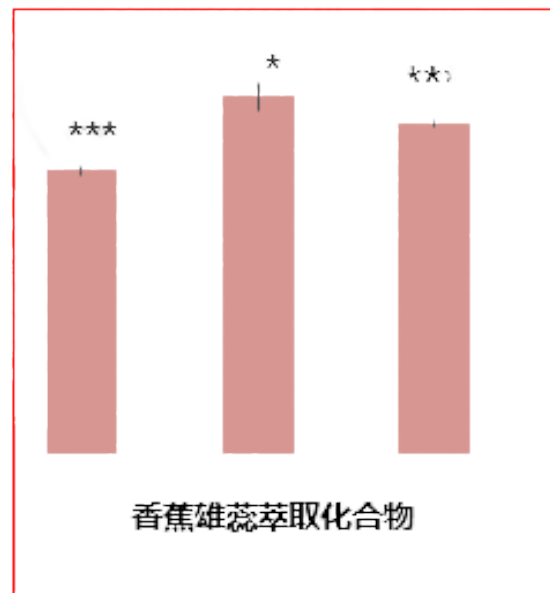
研究显示，市面防脱成分中效果最好是非那雄胺
Studies show that among the anti-hair loss ingredients on the market, finasteride is the most effective.



DHT content (pg/mL)



非那雄胺



Compare with Mock: * p < 0.05, ** p < 0.01, *** p < 0.001
Finasteride: positive control

Relative DHT content (%)



非那雄胺

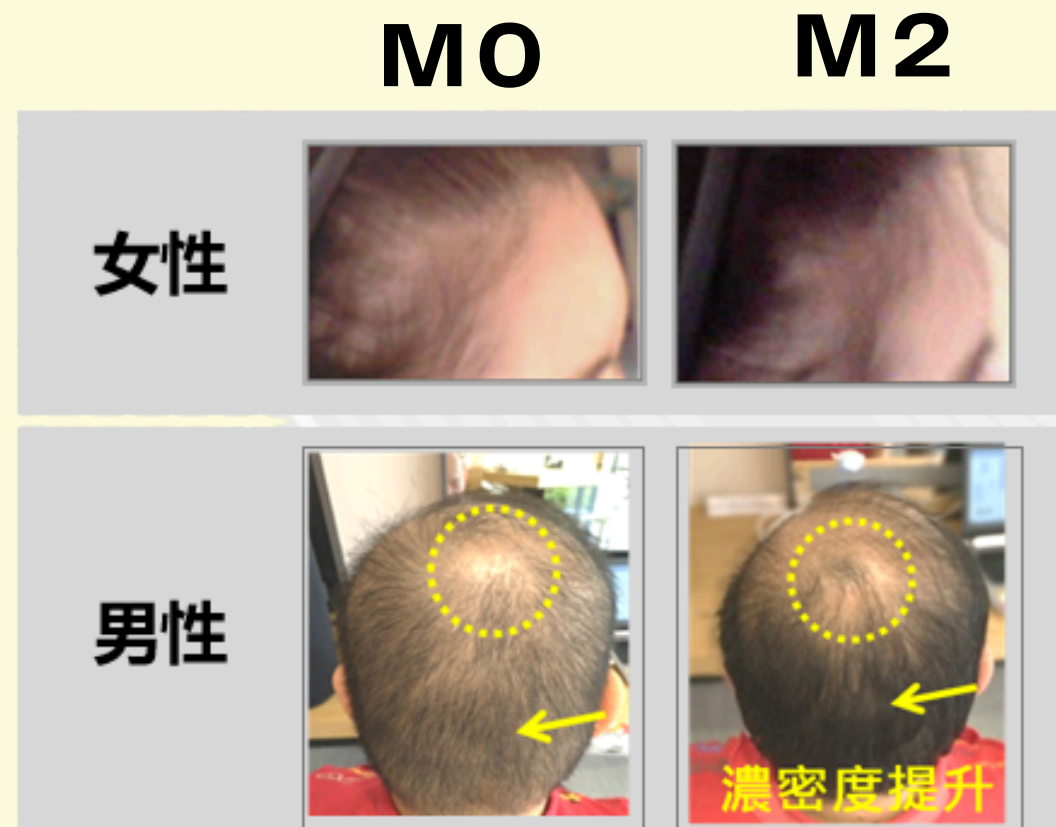
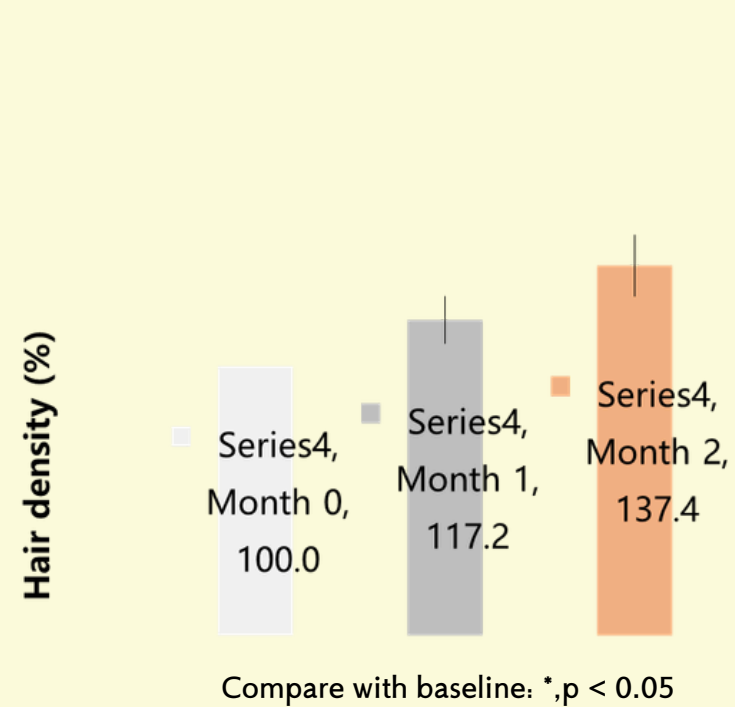


香蕉雄蕊萃取增加头发浓密度 (增发密度)

Banana stamen extract increases hair density (increases hair density).

食用香蕉雄蕊萃取粉2个月后，能使
头发密度显著增加37.4%

After consuming banana stamen extract powder for 2 months,
hair density can significantly increase by 37.4%.

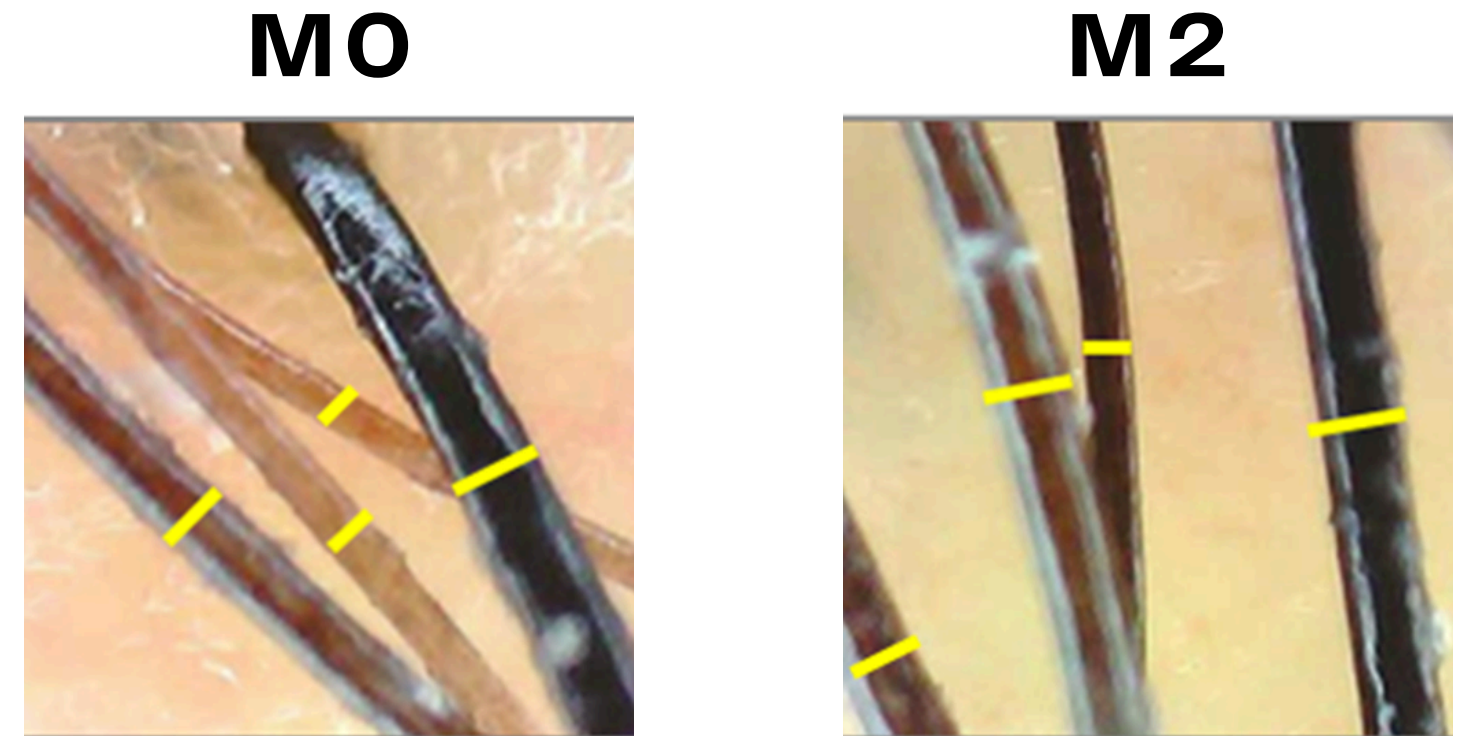


香蕉雄蕊萃取增加头发强韧度 (增加发径)

Banana stamen extract increases hair strength (increases hair shaft diameter).

食用香蕉雄蕊萃取粉2个月后，能使头发平均
发径显著增加0.01mm，强化发根

After consuming banana stamen extract powder for 2 months, the average hair shaft diameter
can significantly increase by 0.01 mm, strengthening the hair roots.



发径增加

香蕉雄蕊萃取降低血液中掉发因子DHT浓度

Banana stamen extract reduces the concentration of the hair loss factor DHT in the blood.

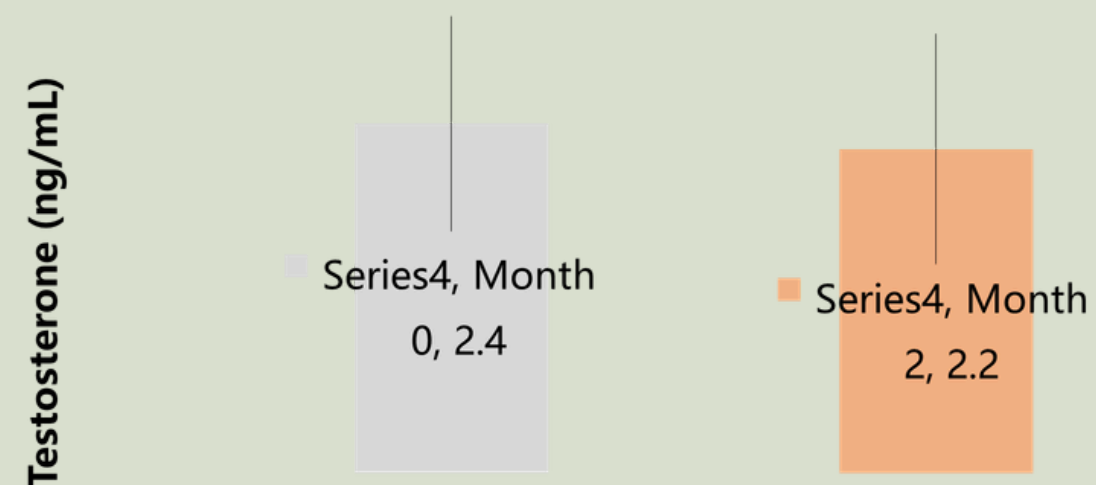
食用香蕉雄蕊萃取粉2个月后，可使血液中DHT浓度降低43.9 pg/mL，并且对雄性荷尔蒙睾固酮Testosterone的影响不大。

改善人数比率高达71%。

After consuming banana stamen extract powder for 2 months, the DHT concentration in the blood can be reduced by 43.9 pg/mL, and it has little effect on the male hormone testosterone.

The improvement rate among participants reaches as high as 71%.

掉发因子：DHT (二氢睾固酮)



睾固酮Testosterone



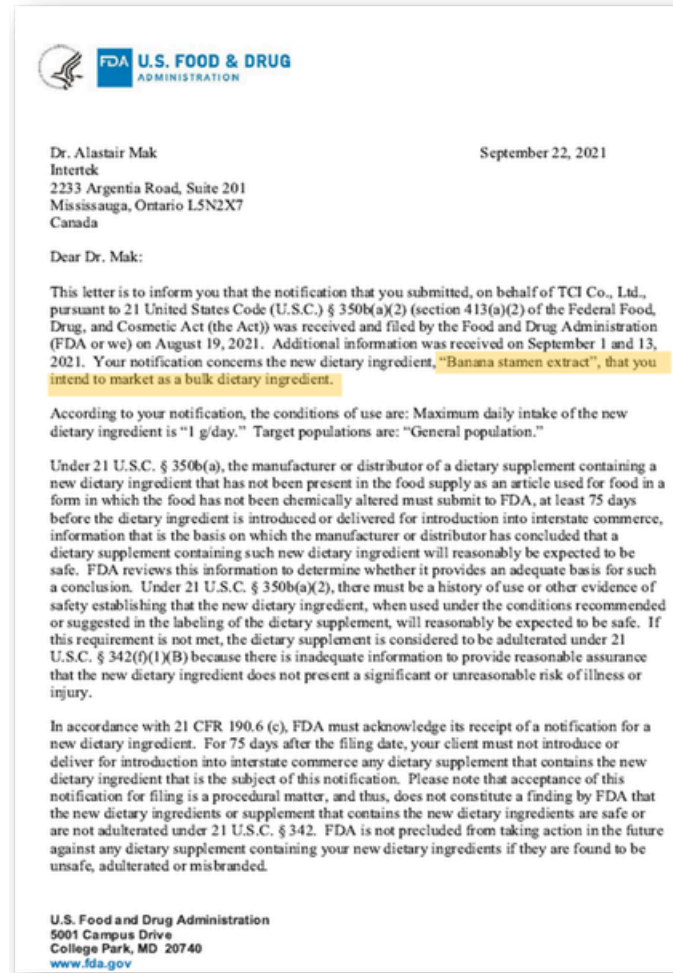
美国 FDA 认证 新膳食成分-香蕉雄蕊萃取 NEW DIETARY INGREDIENTS (NDI)

U.S. FDA Certification

New Dietary Ingredient — Banana Stamen Extract (NDI)

经过层层检验与把关，香蕉雄蕊萃取为美国 FDA
首度通过香蕉健发新膳食原料。

After rigorous testing and verification, banana stamen extract has become the first banana-derived new dietary ingredient for hair health approved by the U.S. FDA.



荣获食品界奥斯卡奖 NutraIngredients-USA Awards 荣获银牌

Honored with the "Oscars of the Food Industry" — NutraIngredients-USA Awards, Silver Award Winner.

香蕉雄蕊在美国营养成分大奖中，在分类 BEAUTY FROM WITHIN
拿到 FINALIST，此奖项每个类别只有1个 WINNER, 2个 FINALIST 获奖。

Banana stamen received a Finalist award in the category "Beauty from Within" at the U.S. NutraIngredients Awards. For this award, each category has only 1 Winner and 2 Finalists.



专属打造 倾情呈现

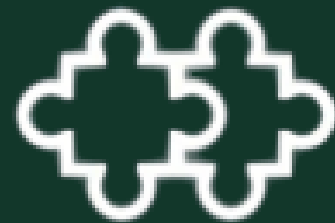
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Patent Deployment



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高稳定与高含量的生物原料

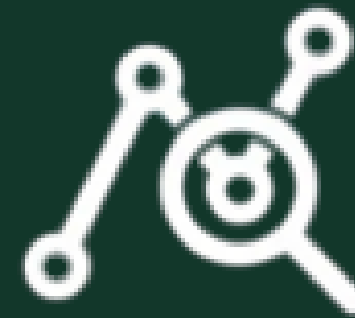
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high stability, and high content.



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QODM
实验室

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Developing Innovative Dosage Forms with
Quality, Quickness, and Quotation
to Create Excellent Products.



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运用尖端自动化仪器分离自然界
中的未知成分鉴定结构,
发现效用, 创造价值

Utilizing cutting-edge automated instruments to
isolate unknown components from nature,
identify their structures, discover their functions,
and create value.



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鹰眼
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打造引领业界的先进制程

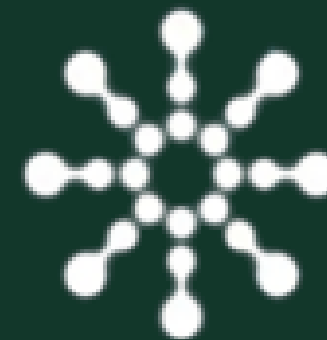
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by Using Genes as a Map in
Combination with Diagnostic Technologies.



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Staying True to Customer Needs by Exploring
Potential Efficacy and Development
Directions through Scientific Validation.



ARMTE LAB.
组织医学
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整合细胞、细胞支架及
讯号因子设计组织
再生修护新方案

Integrating Cells, Cell Scaffolds,
and Signaling Factors to
Design New Solutions for Tissue
Regeneration and Repair.



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开发差异化细胞治疗技术
以再生医疗创造人类200岁的科技

Developing Differentiated Cell Therapy Technologies to
Advance Regenerative Medicine and Create the
Science for Human Longevity up to 200 Years.

同时激活两大防脱固发关键因子

Simultaneously Activating Two Key Factors for Anti-Hair Loss and Hair Strengthening.

抑制

Inhibit

脱发

Hair Loss

抑制雄性秃元凶DHT

抵抗脱发氧化伤害

Inhibit the Culprit of Androgenetic Alopecia (DHT)
Resist Oxidative Damage Leading to Hair Loss

毛囊

Hair Follicle

充能

Energizing

畅通毛囊血管微循环

补充关键营养素

Unblock Hair Follicle Microcirculation
Replenish Essential Nutrients



DOUBLE 2 NUTRI LIQUID

魔術絲 · 黑松露香蕉莓果植物饮

Happy Banana Hair Tonic Drink

美国FDA认证专利原料，双重机制维持毛囊循环健康
搭配黑色元素生发成分，从内改善发质，预防落发
补充头发新生所需微量营养素，打造强健亮丽浓发

U.S. FDA-certified patented ingredient, with a dual mechanism to maintain healthy follicle circulation.
Combined with hair growth-promoting black elements to improve hair quality from within and prevent hair loss.
Replenishes essential trace nutrients for new hair growth, creating strong, shiny, and voluminous hair.

产品风味：莓果风味

Product Flavor: Berry Flavor

使用方式：直接食用，每日推荐 1 袋

Usage: Consume directly, recommended 1 sachet per day

产品规格：30mL 液态包 15包/盒

Product Specification: 30mL liquid sachet, 15 sachets/box

主成分：香蕉雄蕊萃取粉（中国标示名称：香蕉粉）、葡萄糖酸锌、黑松露粉、黑芝麻、黑桑葚粉、酸枣仁粉、西梅浓缩汁、黑醋栗果粉、复合紫萝卜浓缩汁、综合莓果浓缩汁、浓缩苹果汁

Main Ingredients: Banana Stamen Extract Powder (China labeling name: Banana Powder), Zinc Gluconate, Black Truffle Powder, Black Sesame, Black Mulberry Powder, Jujube Seed Powder, Prune Concentrate, Blackcurrant Powder, Purple Carrot Concentrate, Mixed Berry Concentrate, Apple Juice Concentrate

大型 IRB 人体试验

Large-Scale IRB Human Trial

目的：以人体试验进行香蕉雄蕊萃取产品之头发保健功效性评估

Objective: To conduct a human trial to evaluate the hair health efficacy of banana stamen extract product.

实验内容：

Experimental Content

• 试验样品剂型：粉包

- Test sample dosage form: powder sachet

• 试验剂量：1 g/天

- Test dosage: 1 g/day

• 受试者条件：满 20 岁之健康男性或女性，有落发或头发稀疏困扰者

- Subject criteria: Healthy males or females aged 20 years and above, experiencing hair loss or hair thinning concerns

• 试验组别与人数：共 50 人，每组各 25 人

- Study groups and sample size: A total of 50 participants, with 25 in each group

1. 安慰剂组

Placebo group

2. 香蕉雄蕊产品组

Banana Stamen Product Group

• 实验设计：双盲，安慰剂对照试验。每日服用一包粉包，连续服用 12 周，于服用前、服用 4 周、

8 周、12 周后进行头发检测。另于服用前、服用 12 周后进行血液采集、洗发落发收集与问卷调查。

- Study Design: Double-blind, placebo-controlled trial. Participants will take one sachet of powder daily for 12 consecutive weeks. Hair assessments will be conducted before intake, and at 4, 8, and 12 weeks after intake. In addition, blood collection, hair shedding collection during shampooing, and questionnaires will be conducted before intake and after 12 weeks of intake.

• 检测项目：

Test Items:

1. 血液-落发相关基因：SRD5A1、TGF- β

Blood - Hair Loss-Related Genes: SRD5A1, TGF- β

2. 头皮与头发检测：头发发根直径测试、头发稳健性、落发量、头发密度(稀疏处发量)、头皮状态

Scalp and Hair Assessments: Hair root diameter test, hair robustness, amount of hair shedding, hair density (in sparse areas), and scalp condition

3. 自评问卷调查

Self-Assessment Questionnaire



人體試驗委員會同意書
Certificate of Approval

日期：2021 年 07 月 05 日

本會編號/試驗編號【IRB No./ Protocol No.】：21-041-A
計畫書版本/日期【Protocol Version/Date】：Version 2.0/ Jun 03, 2021
受試者同意書/版本日期【Informed Consent Forms Version/Date】：Version 2.0/ Jun 03, 2021
通過會期/日期【Board Meeting/Approval Date】：06th Jul 02, 2021/ Jul 05, 2021
有效日期【Expiration Date】：Jul 04, 2022

計畫名稱：香蕉花/TC999 之頭髮及身體健康功效驗證計畫
Protocol Title: Banana flower/TC999 in the efficacy verification program of hair and body health care

計畫主持人【機構】：[Redacted] 大學
Principal Investigators【Research Institute】：[Redacted]
[Redacted] University [Redacted]

委員會對審查通過之研究計畫負監督之責，本計畫提交進度報告頻率為每年一次。

依據 ICH-GCP 及人體試驗相關法規：
According to ICH-GCP and human studies related regulations:

1. 研究計畫每屆滿一年，人體試驗委員會必須重新審查及同意續行，請於有效期間前二個月將最新進度報告以紙本或電子方式送交本會進行審查。
IRB will have to review each research case annually and decide whether to renew this approval or not. The before, please send us [Redacted] IRB your Annual Report two months before the expiration date.

2. 本會人體試驗核准之計畫及同意書須嚴格遵守核准之研究計畫，若有任何變更應取得本會核准。
Investigators should properly implement a research in accordance with the approved protocols and consent methods. If there are any changes should be made subject to our prior approval.

[Redacted] 醫院人體試驗委員會主任委員
Hospital Institutional Review Board
Chairman



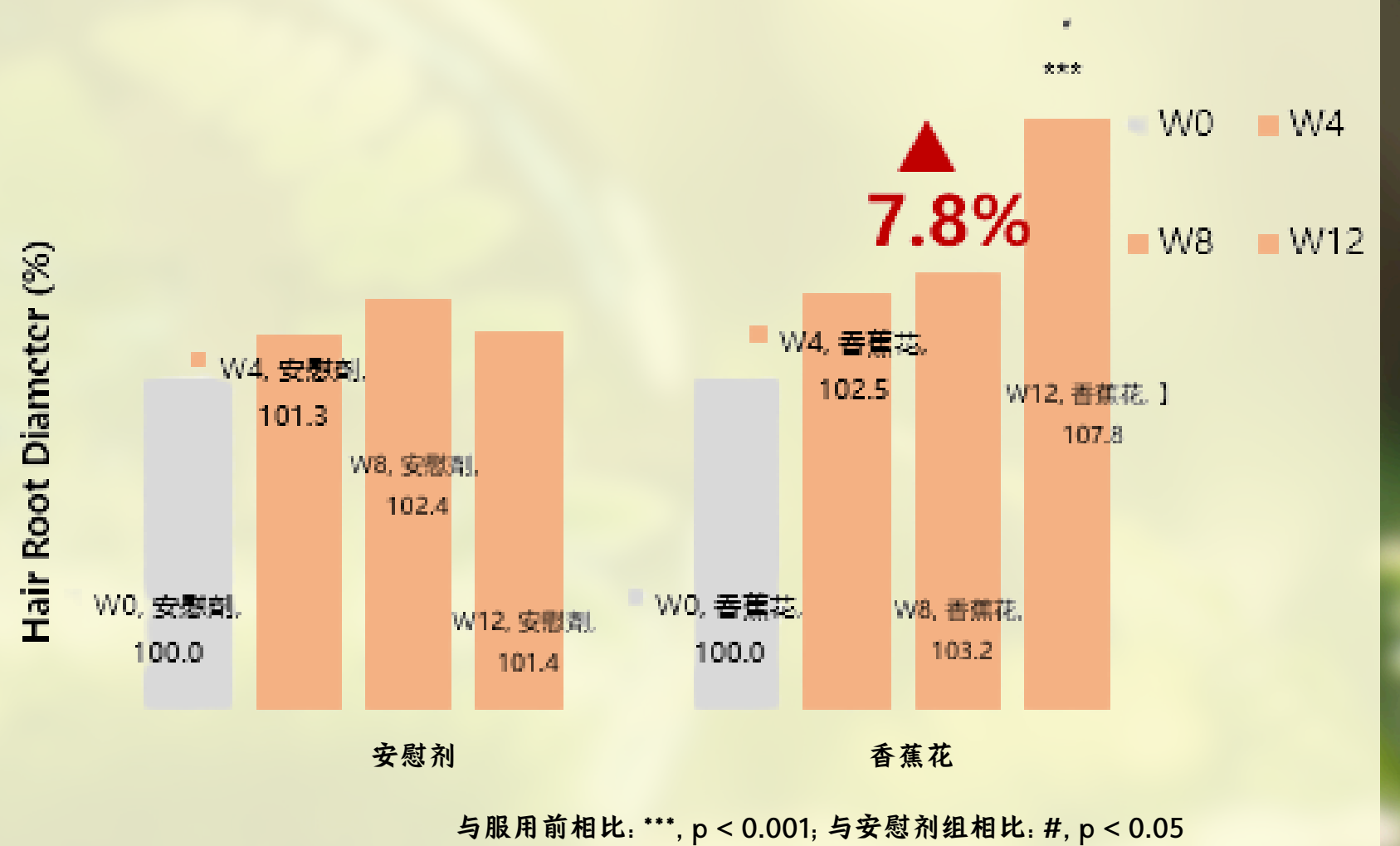
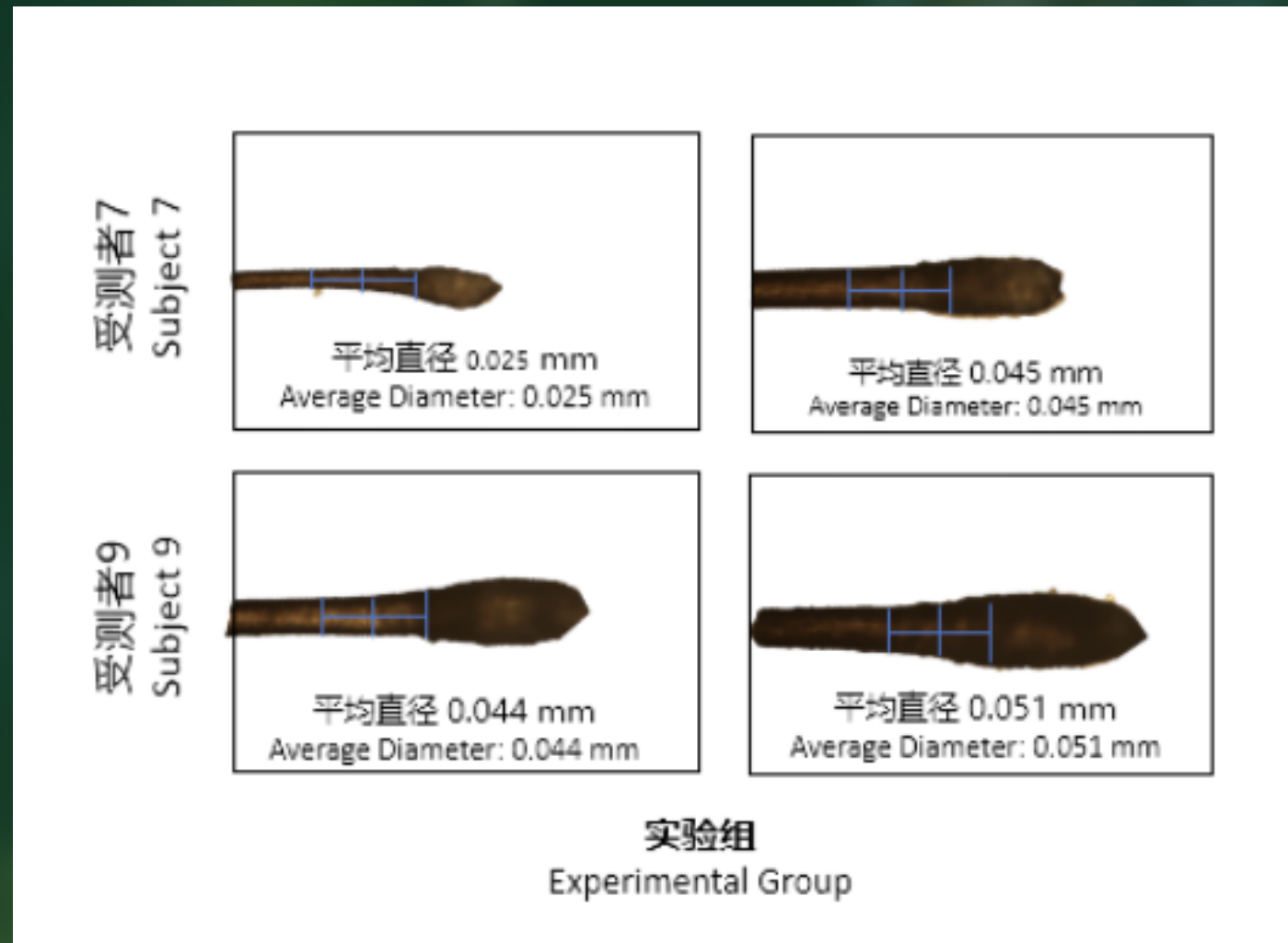
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人体实证能提升发根直径，使头发较强韧

Human trials have demonstrated the ability to increase hair root diameter, resulting in stronger hair.

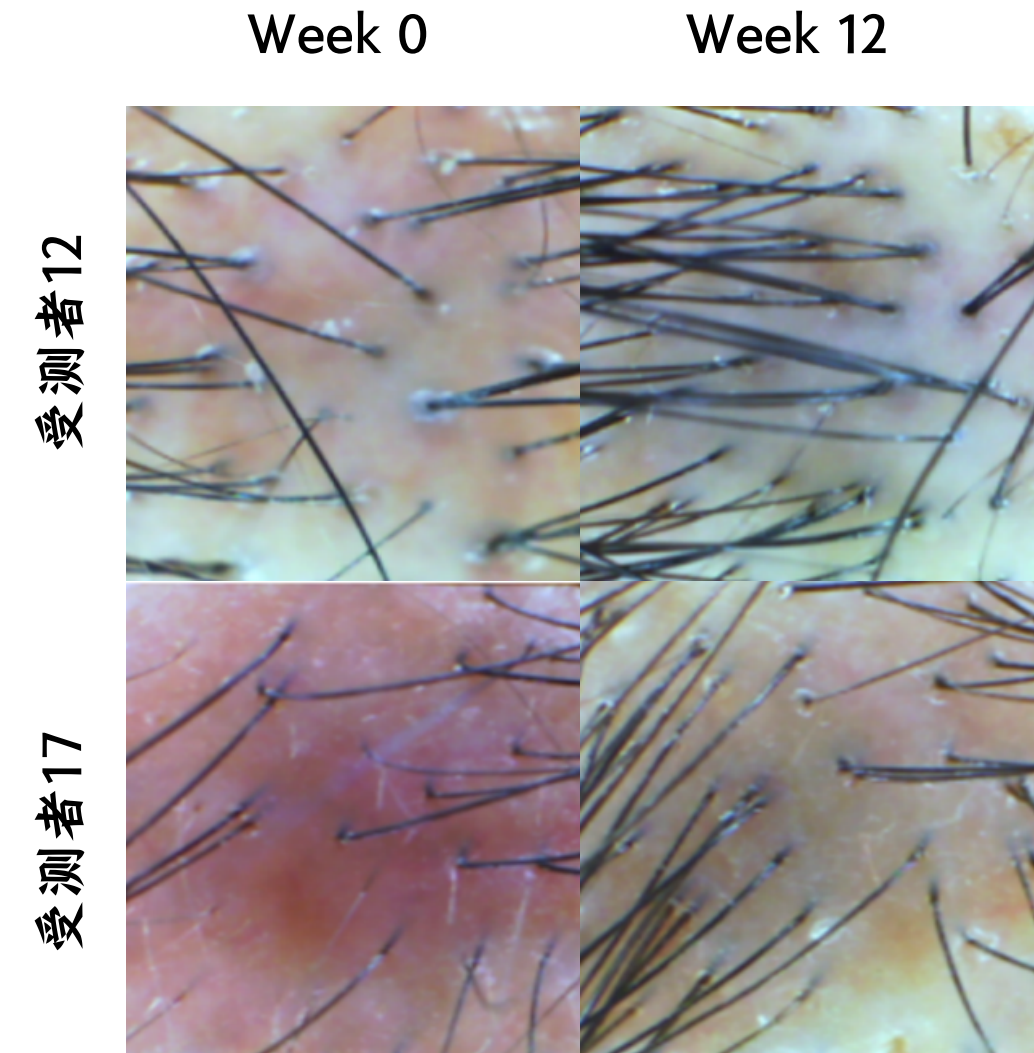
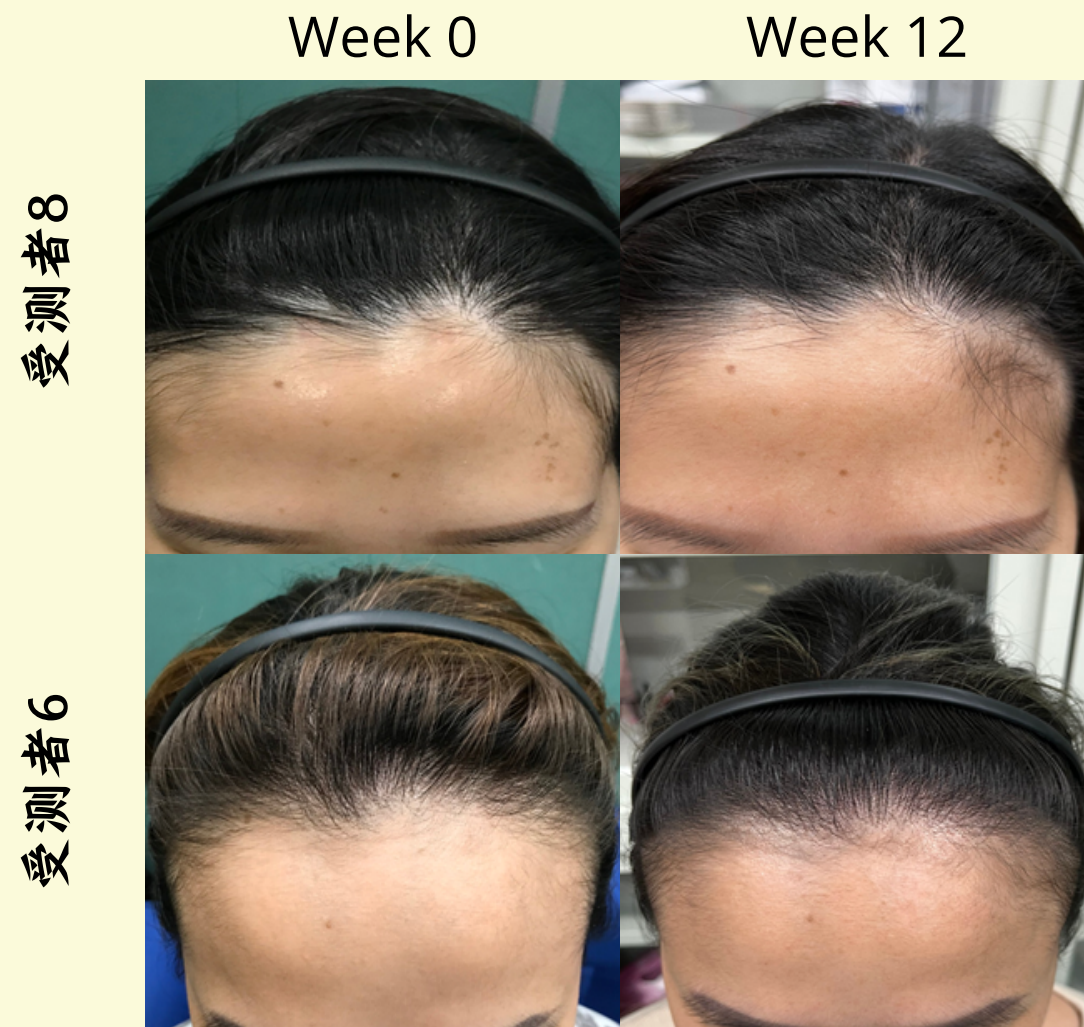
与安慰剂相比，受试者12周后能显著增加发根直径达7.8%，且改善人数比率达80%。

Compared with the placebo, subjects were able to significantly increase hair root diameter by 7.8% after 12 weeks, with an improvement rate of 80%.



人体实证能增加头发浓密度、改善头皮泛红状况

Human trials have demonstrated the ability to increase hair density and improve scalp redness.



受试者之头发稀疏处发量增加、长出小细发，且能改善头皮泛红状况

Subjects experienced an increase in hair volume in sparse areas, the growth of fine hairs, and an improvement in scalp redness.

Ingoude Company

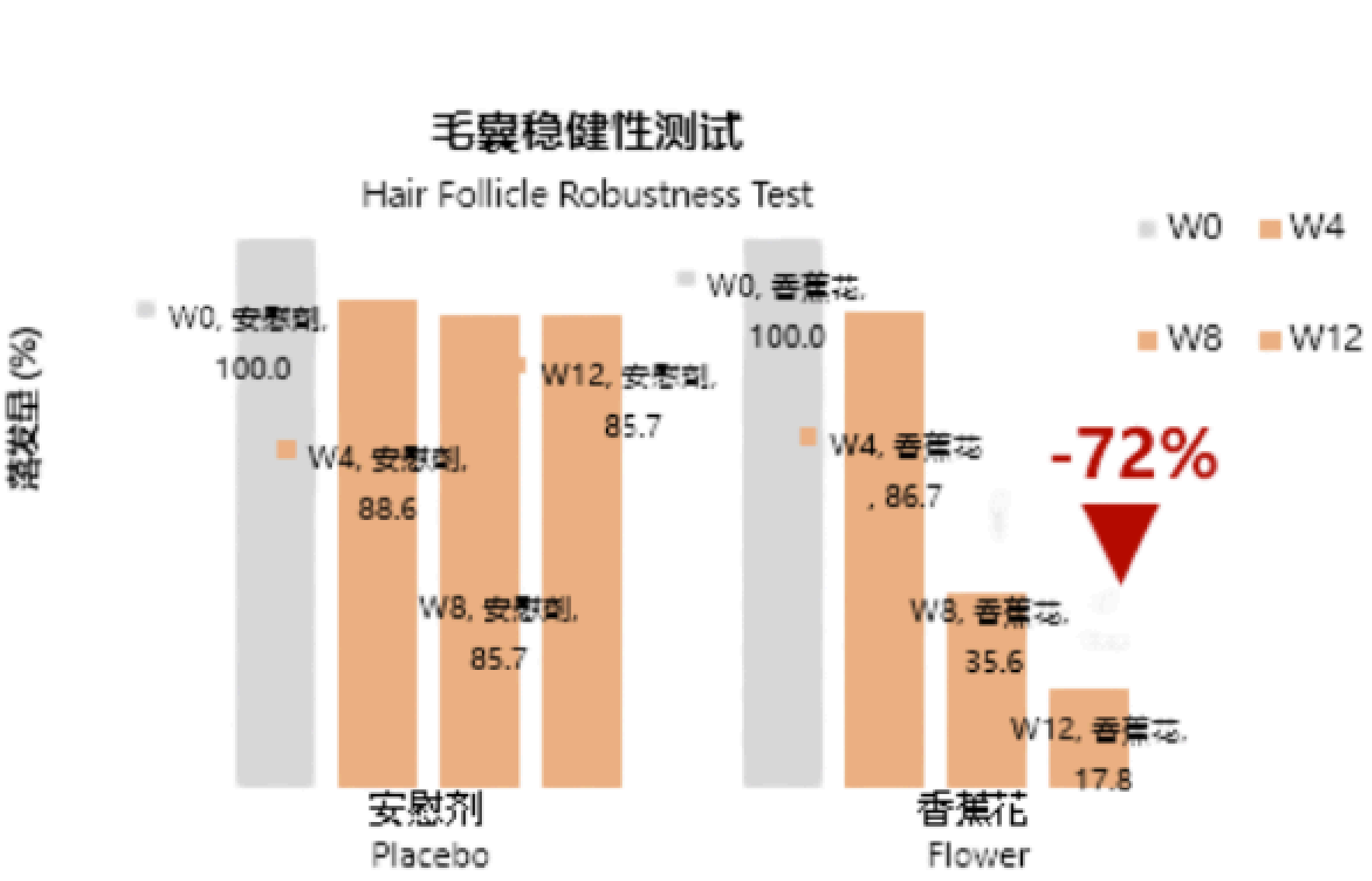


人体实证能大幅提升毛囊稳健性，改善落发状况

Human trials have demonstrated a significant enhancement in hair follicle robustness and an improvement in hair loss conditions.

与安慰剂组相比，受试者 12 周后能显著减少施力拉扯与洗发时之落发量，且改善人数比率皆达 80% 以上。表示产品能强化毛囊稳健性，改善落发状况。

Compared with the placebo group, after 12 weeks the subjects showed a significant reduction in hair loss during forceful pulling and shampooing, with the proportion of improved individuals reaching over 80%. This indicates that the product can strengthen hair follicle stability and improve hair loss conditions.



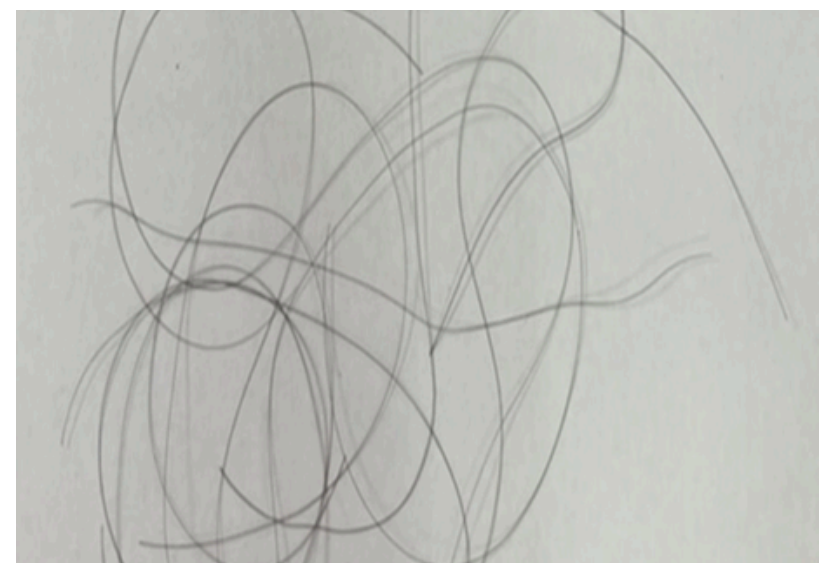
实验组
Experimental group

受测者6



Week 0

164.5 mg



Week 12

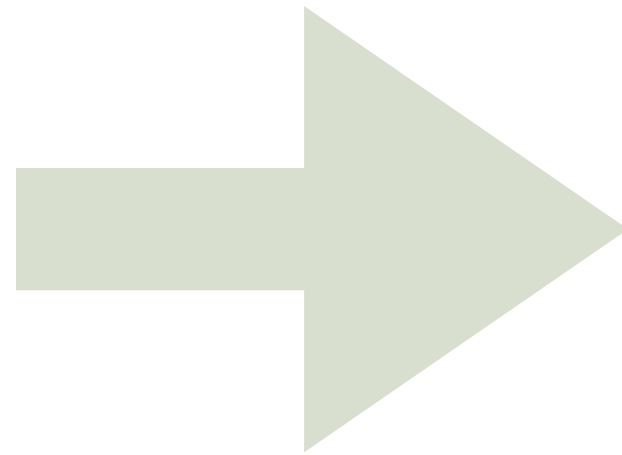
15.4 mg

人体实证能抑制前列腺细胞增生

Human clinical evidence can inhibit prostate cell proliferation.

产品可抑制60%前列腺细胞增生，同时40%的受试者表示前列腺肥大造成之症状（如夜尿、排尿无力）有改善。

The product can inhibit 60% of prostate cell proliferation, while 40% of the subjects reported improvement in symptoms caused by prostate enlargement (such as nocturia and weak urination).



一个月内前列腺肥大改善程度 - 超音波影像

Degree of prostate enlargement improvement within one month - Ultrasound imaging

黑松露香蕉莓果植物饮

Black Truffle Banana Berry Botanical Drink

原料获奖及专利信息

Award and Patent Information of Ingredients

2014第66届德国纽伦堡国际发明展 铜牌奖

2014 66th International Exhibition of Inventions in Nuremberg, Germany – Bronze Medal Award

2015瑞士日内瓦国际发明展 金牌奖&特别奖

2015 Geneva International Exhibition of Inventions – Gold Medal Award & Special Prize

2017日本东京创新天才国际发明奖 金牌

2017 Tokyo International Genius Invention Award, Japan – Gold Medal

2023 世界食品创新奖_香蕉雄蕊_入围决赛名单

2023 World Food Innovation Awards – Banana Stamen – Finalist



香蕉雄蕊萃取物于制备促进毛发生长医药组成物的用途

The use of banana stamen extract in the preparation of pharmaceutical compositions for promoting hair growth

核准：中国发明专利 专利号 AL 2018 1 0741809.8

Approved: China Invention Patent, Patent No. AL 2018 1 0741809.8

核准：中国台湾发明专利 专利号 I699209

Approved: Taiwan Invention Patent, Patent No. I699209

核准：美国发明专利 专利号 10,588,932

Approved: United States Invention Patent, Patent No. 10,588,932

香蕉花萃取物用于治疗前列腺肿大和/或改善前列腺肿大引起排尿障碍的用途

The use of banana flower extract for the treatment of prostatic hypertrophy and/or the improvement of urination disorders caused by prostatic hypertrophy

核准：中国发明专利 专利号 ZL201510603617.7 (限线下使用)

Approved: China Invention Patent, Patent No. ZL201510603617.7 (For offline use only)

核准：中国台湾发明专利 专利号 I551293

Approved: Taiwan Invention Patent, Patent No. I551293

核准：韩国发明专利 专利号 10-1736591

Approved: Korea Invention Patent, Patent No. 10-1736591

核准：美国发明专利 专利号 9,968,646

Approved: United States Invention Patent, Patent No. 9,968,646

核准：日本发明专利 专利号 6059316

Approved: Japan Invention Patent, Patent No. 6059316

核准：欧盟发明专利 专利号 2997972

Approved: European Union Invention Patent, Patent No. 2997972



专利超威米乳化技术

TCl patent technology

double  NUTRI 双营²™

超微乳营养成分

Ultra-microemulsion Nutrients

不只是补给品，是吃真正的健康

Not just a supplement, but a way to consume real health.

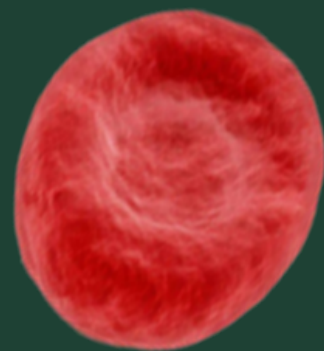


double²NUTRI 双营²™



乳化微粒尺寸

Emulsified size 1~3 μ m



红血球尺寸 9 μ m

要吃，为何不选微米级？

HAS TO BE MICRON LEVEL

这是 double²NUTRI 双营²™ 好吸收的秘密，平均粒径仅有1~3 μ m，尺寸只有红血球的1/9，无需体内物理消化的介入，即可快速开启吸收生化流程。

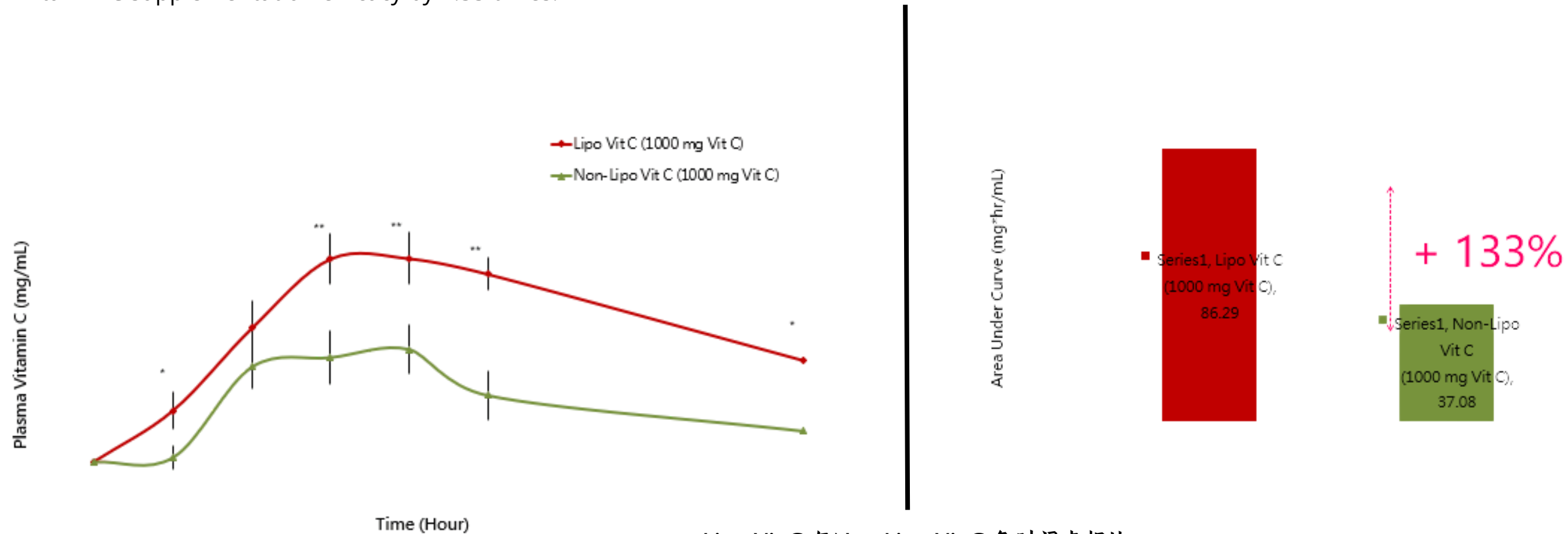
This is double²NUTRI 双营²™ the secret of good absorption: with an average particle size of only 1-3 μ m, just one-ninth the size of a red blood cell, it can quickly initiate the biochemical absorption process without the involvement of physical digestion in the body.

人体实验-生物吸收率比较结果

Bioavailability comparison

服用试验样品后，LipoVitC组之血液中维生素C浓度高于 Non-LipoVitC组，显示 Lipo VitC 之人体吸收效果较佳，且停留在体内可持续达8小时，并可增进维生素C之补充效益达2.33

倍。After taking the test samples, the blood vitamin C concentration in the LipoVitC group was higher than that in the Non-LipoVitC group, indicating that LipoVitC has better absorption in the human body. Moreover, it can remain in the body for up to 8 hours and enhance vitamin C supplementation efficacy by 2.33 times.



Lipo Vit C 与 Non-Lipo Vit C 各时间点相比:
**p<0.01; *p<0.05
(Data are mean ± SEM)



依照折线下面积计算服用前至服用后8小时之血液中维生素C含量:

- Lipo Vit C: 86.29 mg*hr/mL
- Non-Lipo Vit C: 37.08 mg*hr/mL

**Lipo VitC 比 Non-Lipo VitC 之
维生素C吸收量多2.33倍!**

多项国际奖项专利认证， 品质卓越保障

Multiple international awards and patent certifications, ensuring outstanding quality assurance.



魔術絲®



MAGIC CREATION

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synergene



毛囊觉醒、焕发新生

Follicle Awakening, Renewed Vitality

THANK YOU