

Uniq-fresh UF-1.5

NEO-WHITE™ : Instant Oil & Water Balancing Microcrystals

Function: Instant Oil & Water Balancing, Instant anti hair-loss
Water-soluble, transparent, highly stable, fresh and non-flaky



NEO-WHITE™ : Instant Oil & Water Balancing Microcrystals



Oil Control

Deeply purifies excess oil, instantly mattifies,
oil & water balancing



Anti Hair-Loss

Deeply purifies, reduces follicle clogging &
inflammation, strengthens hair roots

NEO-WHITE™ : Instant Oil & Water Balancing Microcrystals



Oil Control

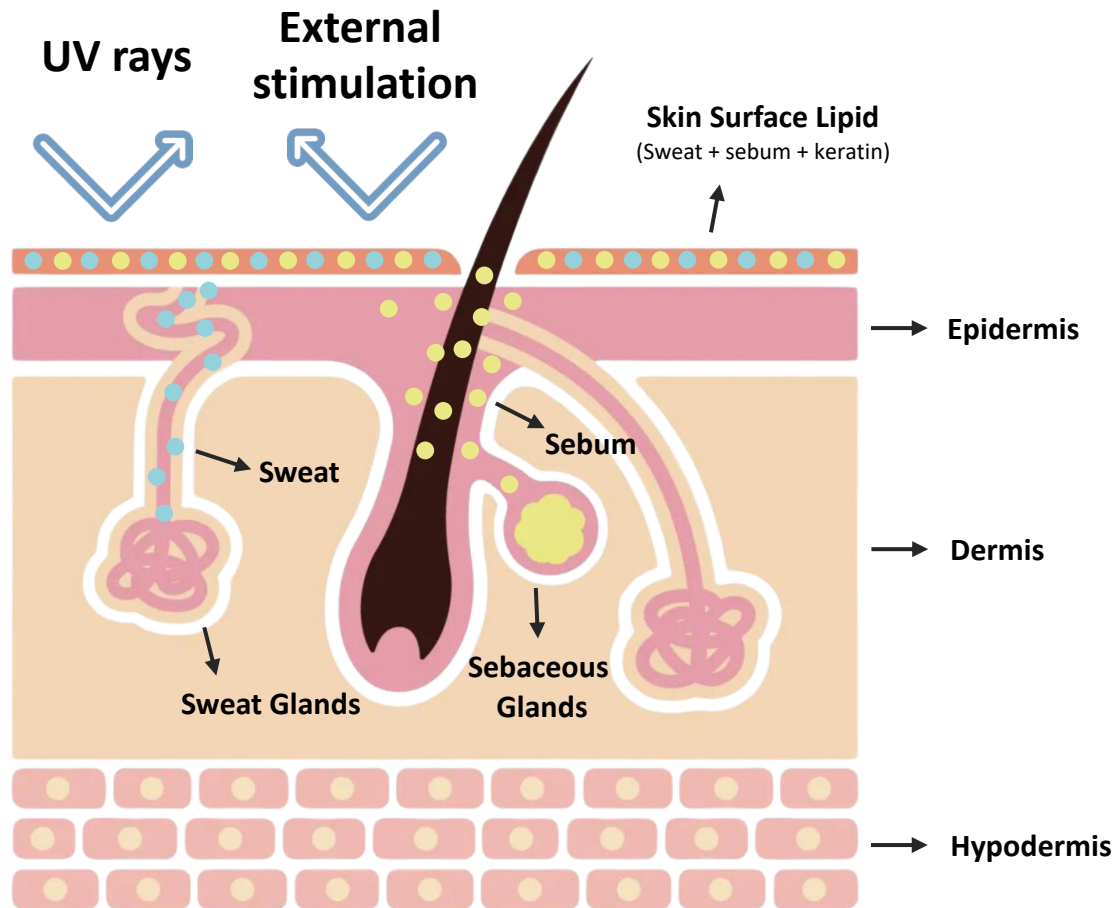
Deeply purifies excess oil, instantly mattifies,
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Anti Hair-Loss

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The Importance of Oil & Water Balance



Oil & Water Balance :

When skin reaches a golden ratio of water & oil, leaving the skin with a healthy glow and an even distribution of pores.



Importance of water :

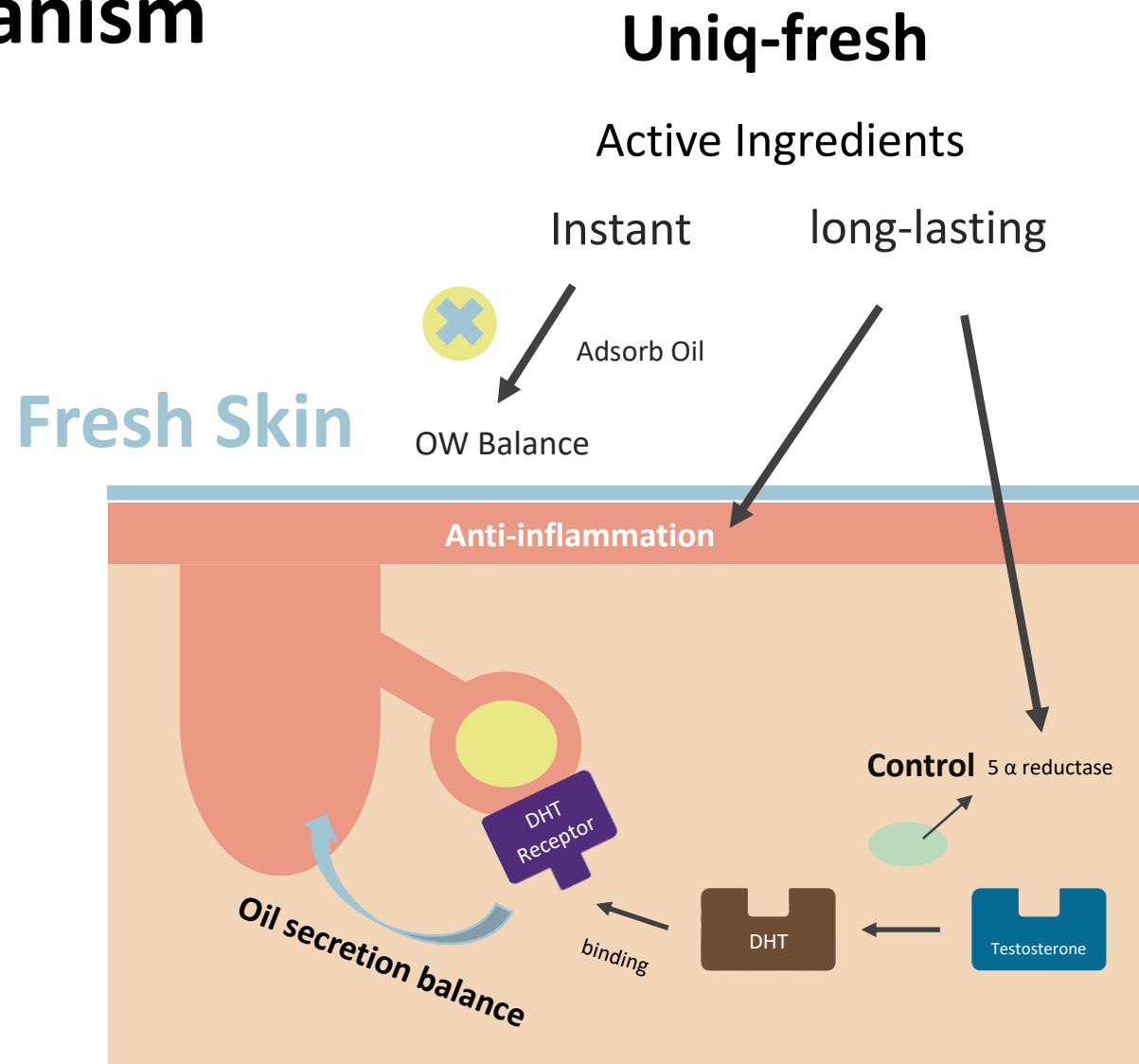
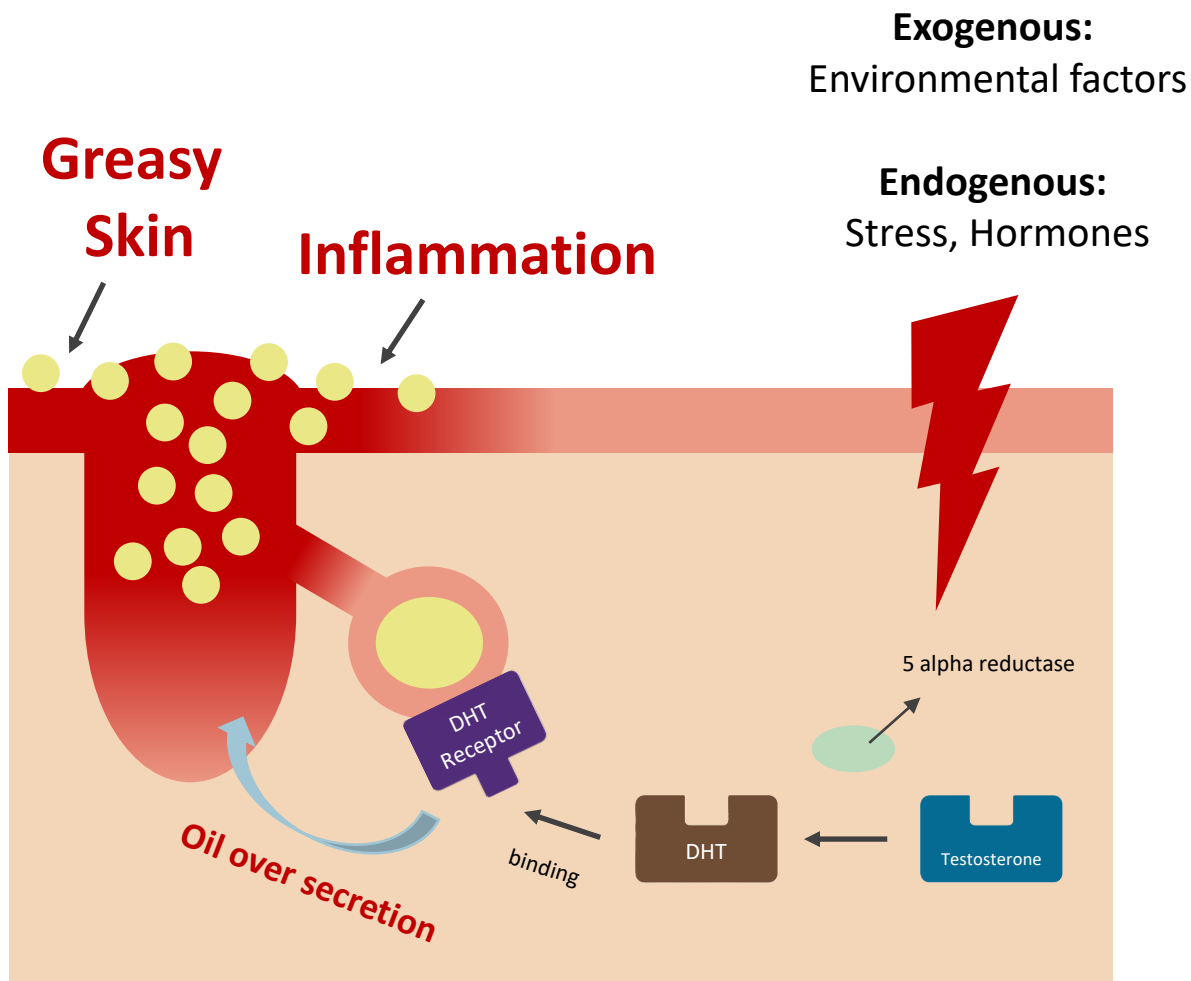
- ✓ Helps keratinocyte cell metabolism
- ✓ Helps keratinocyte metabolism
- ✓ Effect skin toughness and elasticity
- ✓ Maintains the skin's water-oil balance
- ✓ Promotes absorption of skin care products



Importance of oil :

- ✓ Moisturize the skin
- ✓ Avoid excessive moisture loss
- ✓ Maintains body temperature
- ✓ Maintains hair follicle function
- ✓ Hair follicle immunomodulation
- ✓ Carrier of antioxidants on body surface

Uniq-fresh OW Balance mechanism





NEO-WHITE™ technology

Instant Oil & Water Balancing Microcrystals

Deep Purification

Absorbing Grease Instantly



Instant Oil & Water Balancing Microcrystals

Natural coconut fruit extract, processed with NEO-WHITE™ technology to create porous dual-effect microcrystal.

Effects

Encapsulate the active ingredients into the porous holes of the microcrystals.

After the oil & water balancing dual-effect microcrystals contact the skin, the encapsulated activity will be released.

Displaces and adsorbs excess oil, deeply purifying pores.

Oil Control

Inhibiting 5-alpha Reductase



Zinc Gluconate

Effective inhibitor to 5-alpha Reductase activity.

Yeast Extract

Enhancing the inhibitory effect of Zinc.

Arginine

Inhibiting 5-alpha Reductase without affecting male function.

Anti-Inflammatory

Tea Leaf Powder

Tea is not only a traditional drink for the Chinese, but it also has different medical uses

Effects



Protect blood vessels

Inhibit inflammations

Improve skin's protective ability

Clear free radicals



Instant Oil Control Test

- Evaluation of instant oil control effects.



Test sample

1.5%Uniq-Fresh spray



Test area

Arm



Test method

Apply simulated sebum (triglyceride : squalene = 75% : 25%) to the arm, apply an appropriate amount of product to the left test area and put oil control film on it.

Instant Oil Control Test

(1) Apply oil

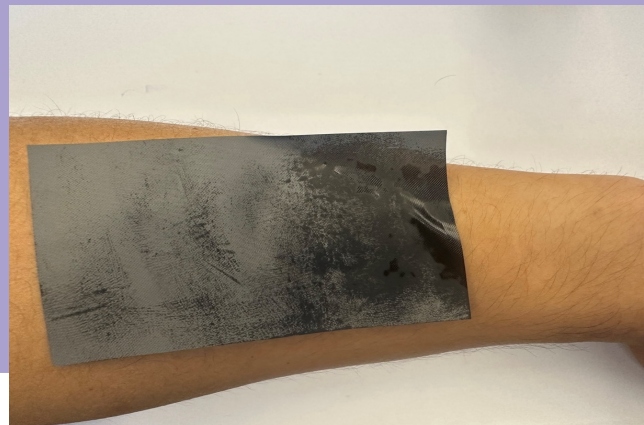


(2) Apply 1.5% Uniq-Fresh on left side



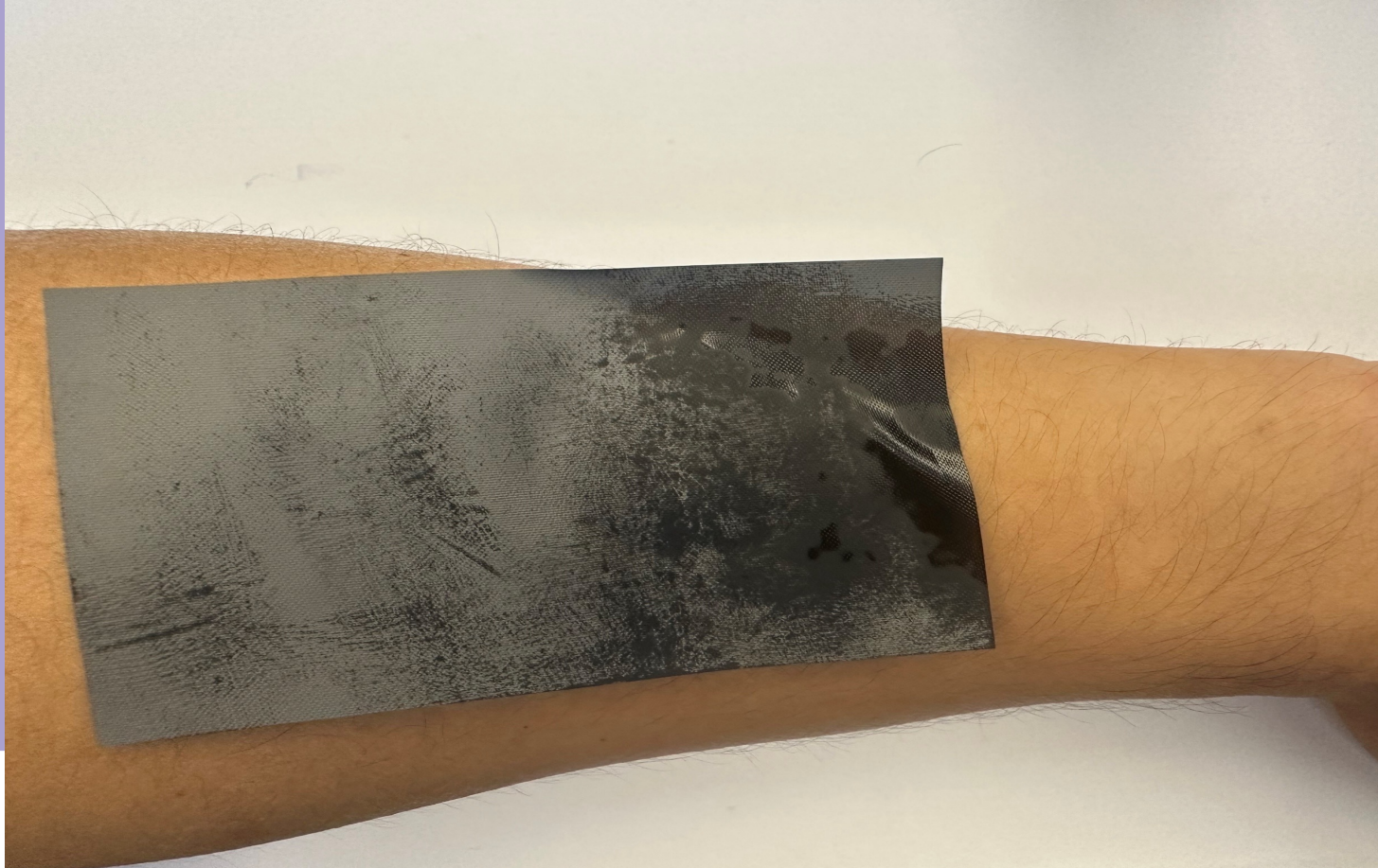
After 10 Seconds

(3) Put oil control film and evaluate.



Instant Oil Control Test

Left side with 1.5% Uniq-Fresh, oil control film significantly reduced sebum adsorption.



Instant Oil Control Test

- Evaluation of instant oil control effects.



Test sample

3%Uniq-Fresh serum
(D.I. water and preservatives)



Test area

Forehead



Test method

Chose subjects with oily forehead,
then applying the sample on the test area.

Instant Oil Control Test

After 7 Seconds



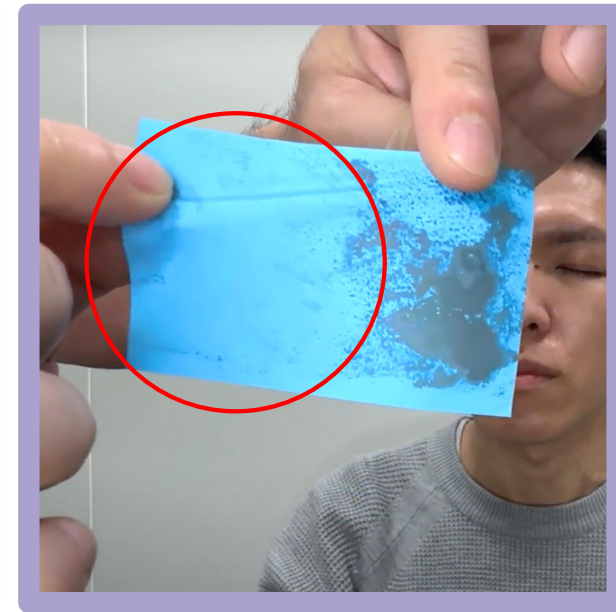
Subjects with oily forehead



Apply 3% Uniq-Fresh on left side



Put oil control film and evaluate.



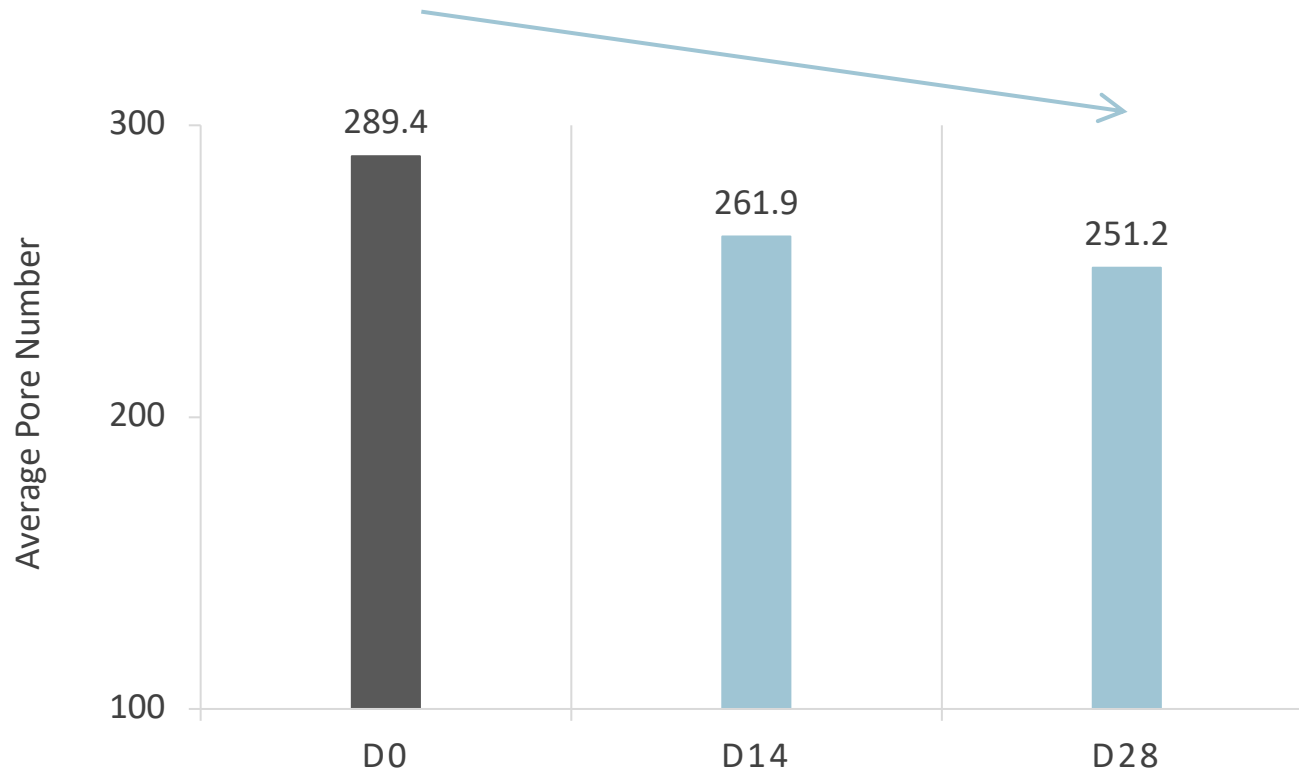
oil control film significantly reduced oil adsorption after 7 Seconds

Inhibit the hypersecretion of oil within **7 seconds**

Clinical Test

Purpose	Evaluate apply 1.5% Uniq-fresh oil control spray sebum content, pore number improvement effect
Samples	1.5% Uniq-fresh oil control spray
Condition	20 oily skin subjects, 50/50 male/female, age 20-40
Time	28 days, 3 test points (day 0, 14, 28)
Method	Apply the sample after cleansing twice a day, morning and evening, and apply evenly to the whole face for 4 weeks.
Instruments	VISIA C+K Sebumeter

Clinical Test - Pore Number



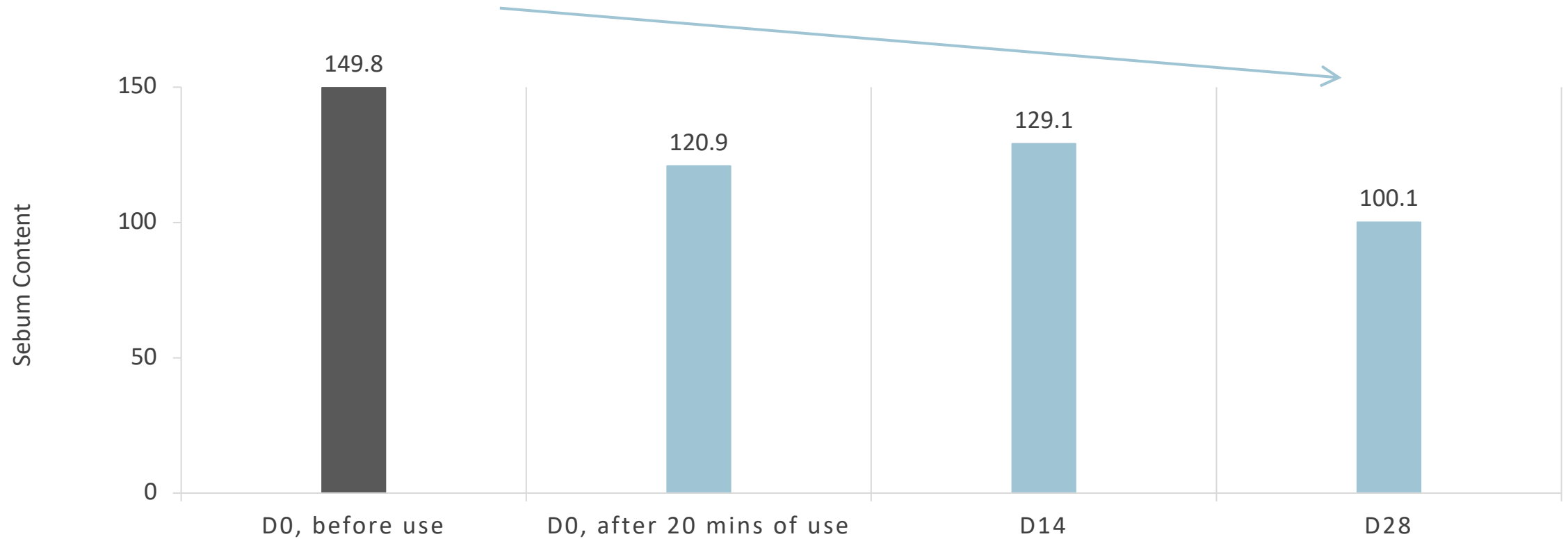
D0



D28

1.5% Uniq-fresh oil control spray can reduce the number of pores by **13.2%** after 28 days of use.

Clinical Test - Sebum Content

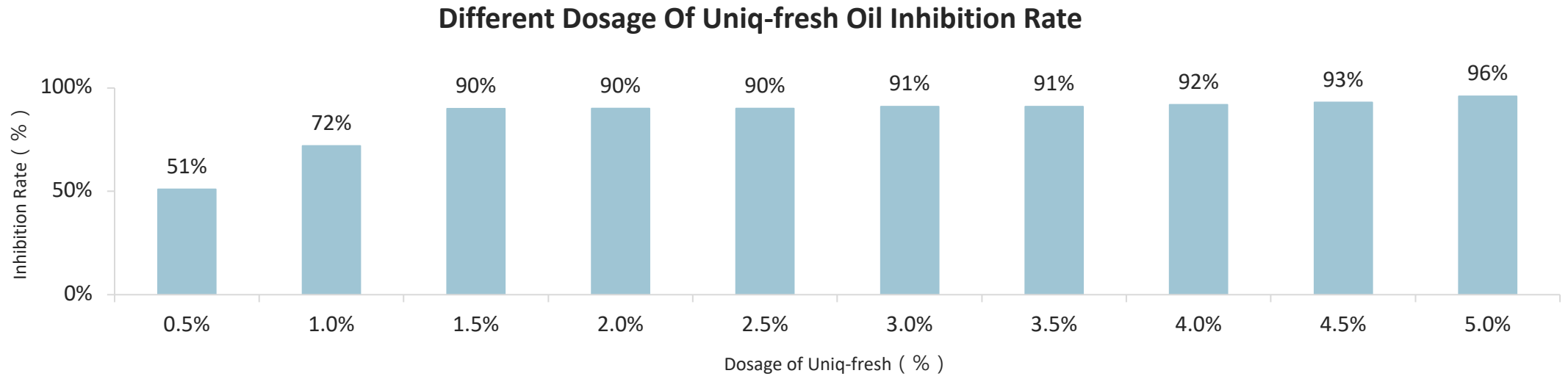


1.5% Uniq-fresh oil control spry can reduce sebum content by **20.3%** after 20 mins, and **33.2%** after 28 days of use

Different dosage of Uniq-fresh oil inhibition test

Purpose	Evaluate different dosages of Uniq-fresh oil inhibition effect.
Samples	Uniq-fresh
Condition	10cm×10cm oil control film, 0.1g is the weight after full absorption of oil.
Test Oils	40% Caprylic/Capric Triglyceride+30% Simmondsia Chinensis (Jojoba) Seed Oil+20% Squalane+10% Squalene
Method	Apply 0.12g of oil to a 10cm x 10cm area of the skin (assuming that some of the oil will be absorbed by the skin), apply the test sample, and then use the oil control film to press completely and then weigh the absorbed oil, to calculate how much oil is inhibited by the sample.

Different dosage of Uniq-fresh oil inhibition test



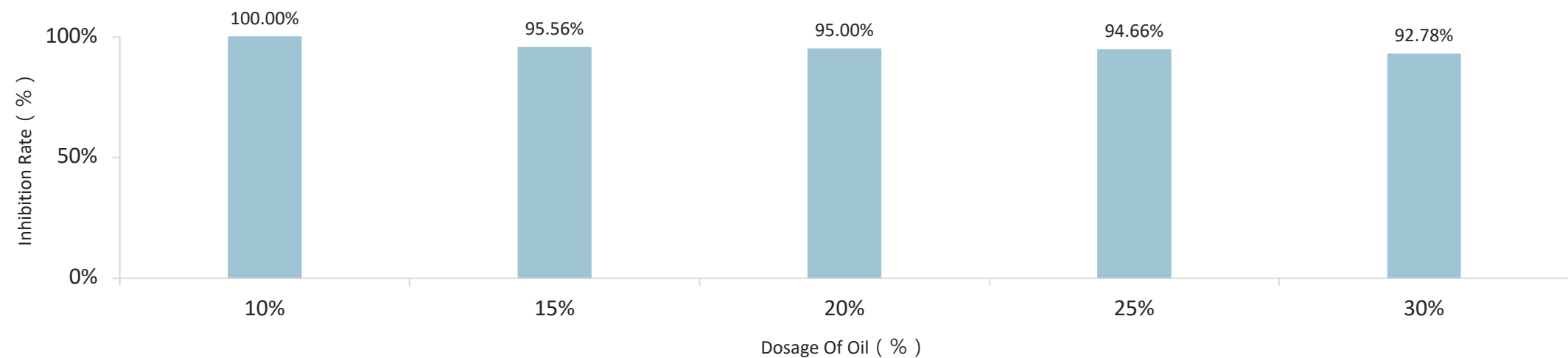
Samples	Dosage	Weight of full oil absorbed	Weight of oil control film	Weight after using sample	Weight of oil absorbed
Uniq-fresh	0.5%	0.1g	0.42g	0.469g	0.049g
	1.0%			0.448g	0.028g
	1.5%			0.430g	0.010g
	2.0%			0.430g	0.010g
	2.5%			0.430g	0.010g
	3.0%			0.429g	0.009g
	3.5%			0.429g	0.009g
	4.0%			0.428g	0.008g
	4.5%			0.427g	0.007g
	5.0%			0.424g	0.004g

Lotion oil inhibition test

Purpose	Evaluate 3% Uniq-fresh lotion oil inhibition effect with different oil dosages
Samples	3% Uniq-fresh lotion
Condition	10cm×10cm oil control film, 0.6g lotion
Method	Apply 0.6g lotion to a 10cm x 10cm area of skin (assuming half the amount of lotion used on the face), wait 10 seconds after application, and then use the oil control film to press completely and then weigh the absorbed oil, to calculate how much oil is inhibited by the sample.

Lotion oil inhibition test

3% Uniq-fresh Lotion Oil Inhibition Rate By Different Oil Dosages



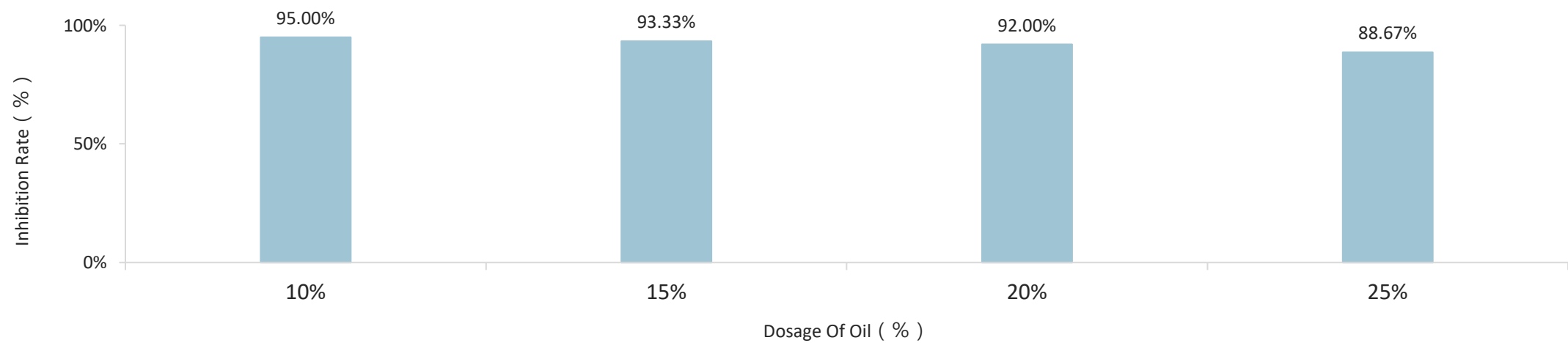
Samples	Dosage	Oil Dosage	Lotion usage	Oil Weight Of 0.6g Lotion	Weight of oil control film	Weight after using sample	Weight of oil absorbed
Uniq-fresh	3%	10%	0.6g	0.06g	0.42g	0.420g	0.000g
		15%		0.09g		0.424g	0.004g
		20%		0.10g		0.425g	0.005g
		25%		0.15g		0.428g	0.008g
		30%		0.18g		0.433g	0.013g

Lotion oil inhibition test

Purpose	Evaluate 1.5%Uniq-fresh lotion oil inhibition effect with different oil dosages
Samples	1.5%Uniq-fresh lotion
Condition	10cm×10cm oil control film, 0.6g lotion
Method	Apply 0.6g lotion to a 10cm x 10cm area of skin (assuming half the amount of lotion used on the face), wait 10 seconds after application, and then use the oil control film to press completely and then weigh the absorbed oil, to calculate how much oil is inhibited by the sample.

Lotion oil inhibition test

1.5% Uniq-fresh Lotion Oil Inhibition Rate By Different Oil Dosages

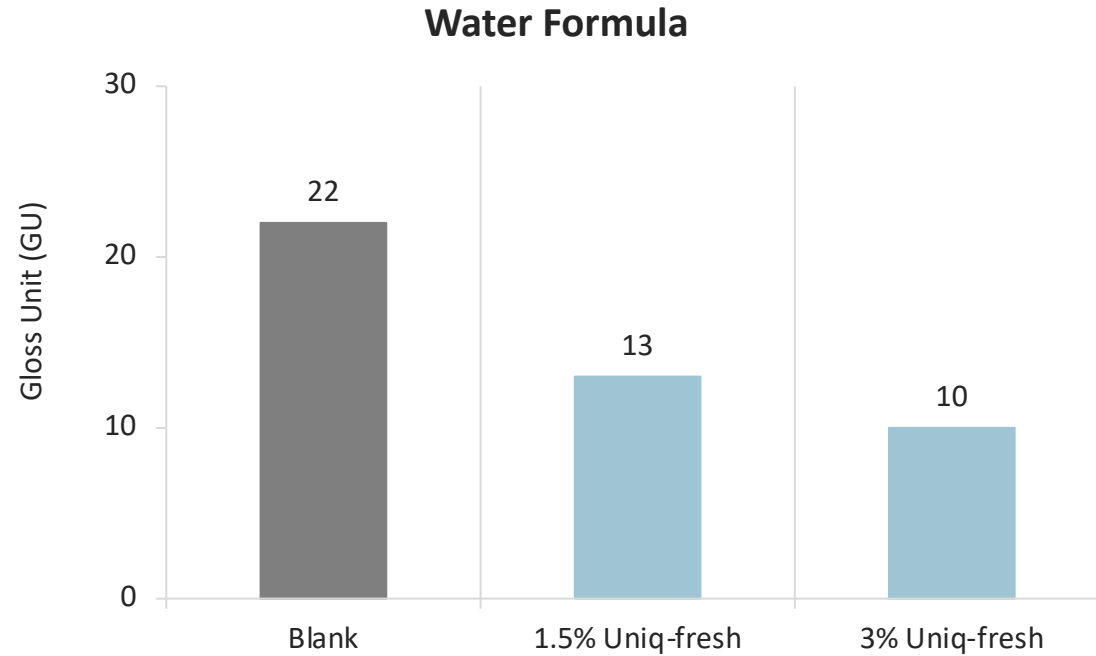


Samples	Dosage	Oil Dosage	Lotion usage	Oil Weight Of 0.6g Lotion	Weight of oil control film	Weight after using sample	Weight of oil absorbed
Uniq-fresh	1.5%	10%	0.6g	0.06g	0.42g	0.424g	0.003g
		15%		0.09g		0.426g	0.006g
		20%		0.10g		0.428g	0.008g
		25%		0.15g		0.437g	0.017g

Skin Radiance Test

Purpose	Compare skin radiance of different samples
Instrument	Skin-Glossymeter GL 200
Unit	Gloss Unit (GU)
Samples	Water Formula, Oil-water Formula, Lotion Formula
Method	Water formula : apply 0.12g of oil evenly on the 10cm x 10cm area of skin, then apply the test sample and leave it for 3 minutes (let the water vaporize), then evaluate the skin radiance. Oil-water Formula(6% oil 0.036g) & Lotion Formula(10% oil 0.06g) : apply 0.12g of oil evenly on the 10cm x 10cm area of skin, then apply the test sample and leave it for 3 minutes (let the water vaporize), then evaluate the skin radiance.

Skin Radiance Test



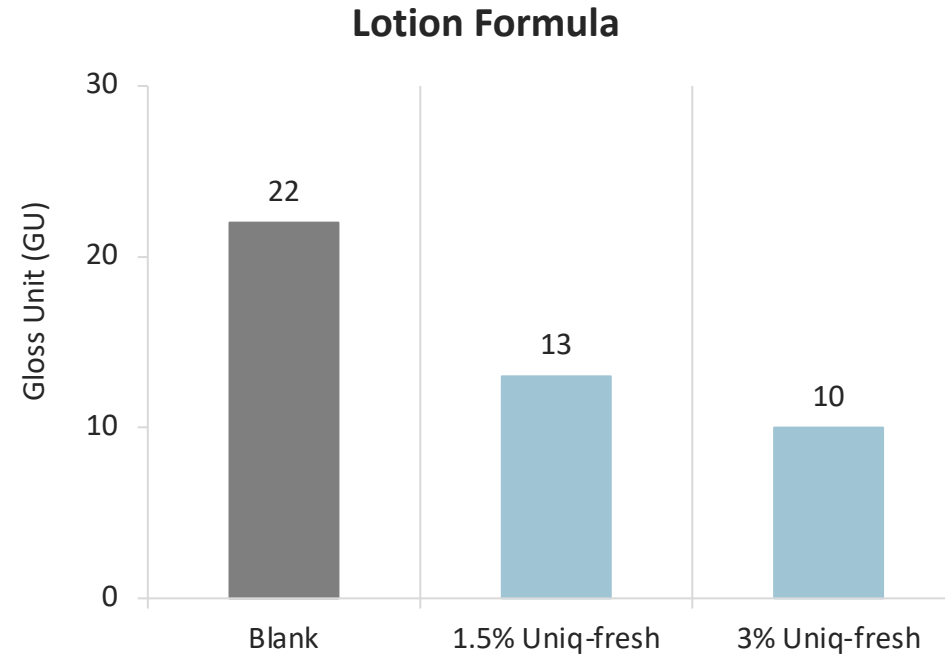
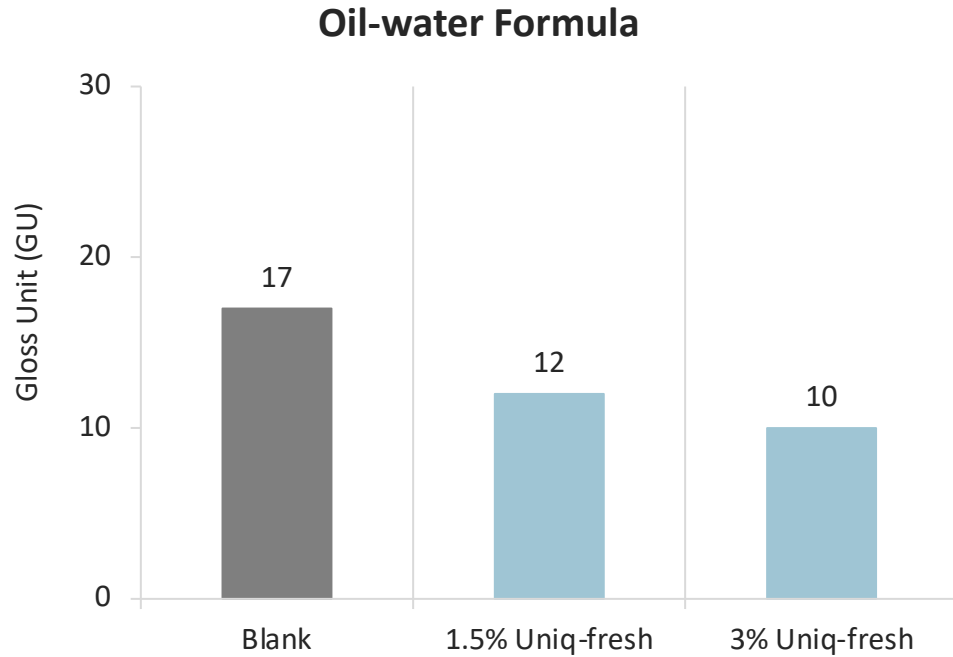
Oily skin: 12-25GU



Oil-water balance skin: 8-12GU

Uniq-fresh can effectively increase the skin mattify

Skin Radiance Test



Oily skin: 12-25GU



Oil-water balance skin: 8-12GU

Uniq-fresh can effectively increase the skin mattify

Skin Experience After Use

1

Refreshing

Skin greasiness decreases rapidly.

2

Oil-Water Balance

Restoration of balanced sebum production.

3

Delicate Skin

Naturally matte and radiant skin.

4

Pore Purification

Improved elasticity and cleanliness of skin pores.

Functions



Oil Control

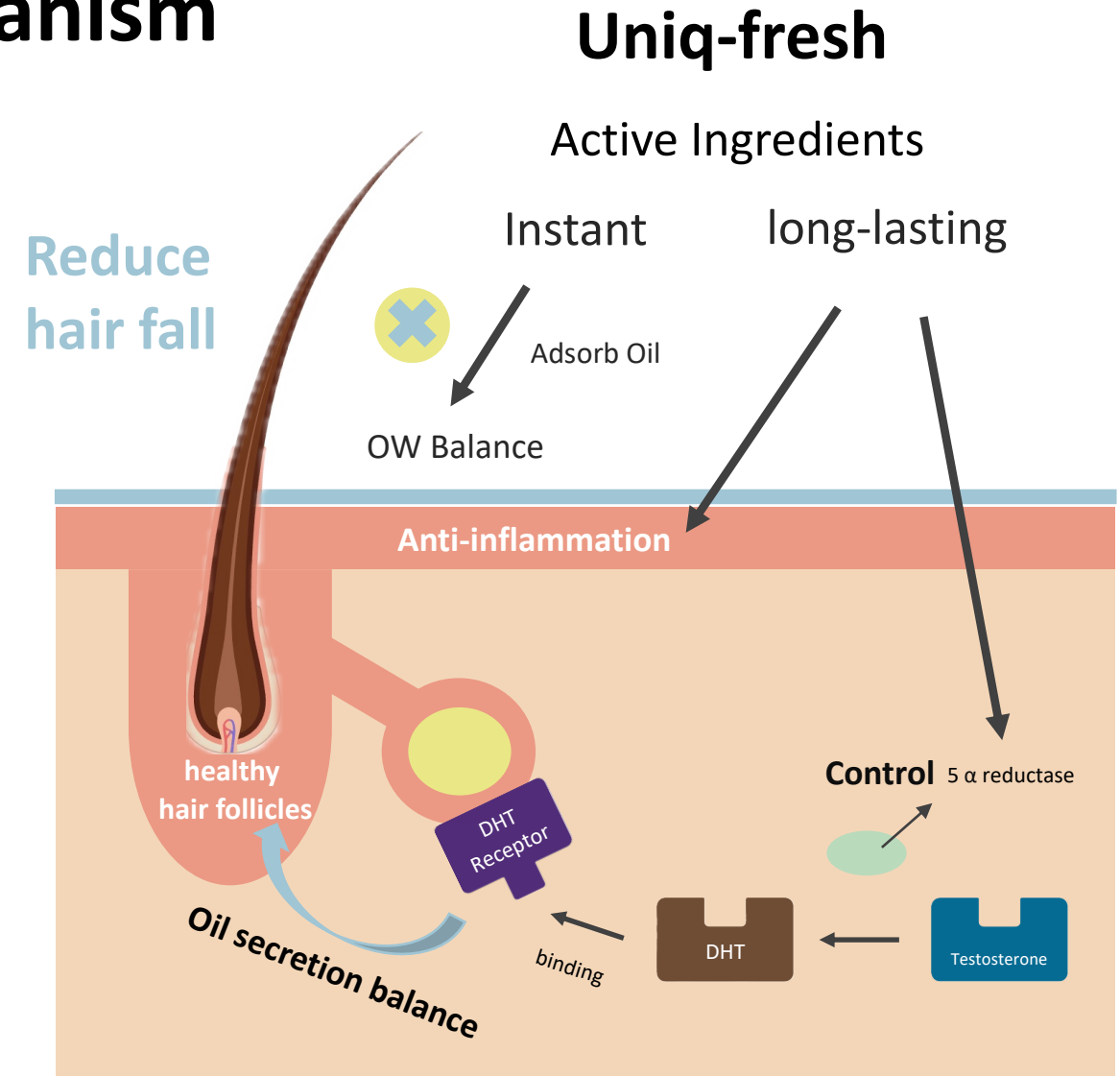
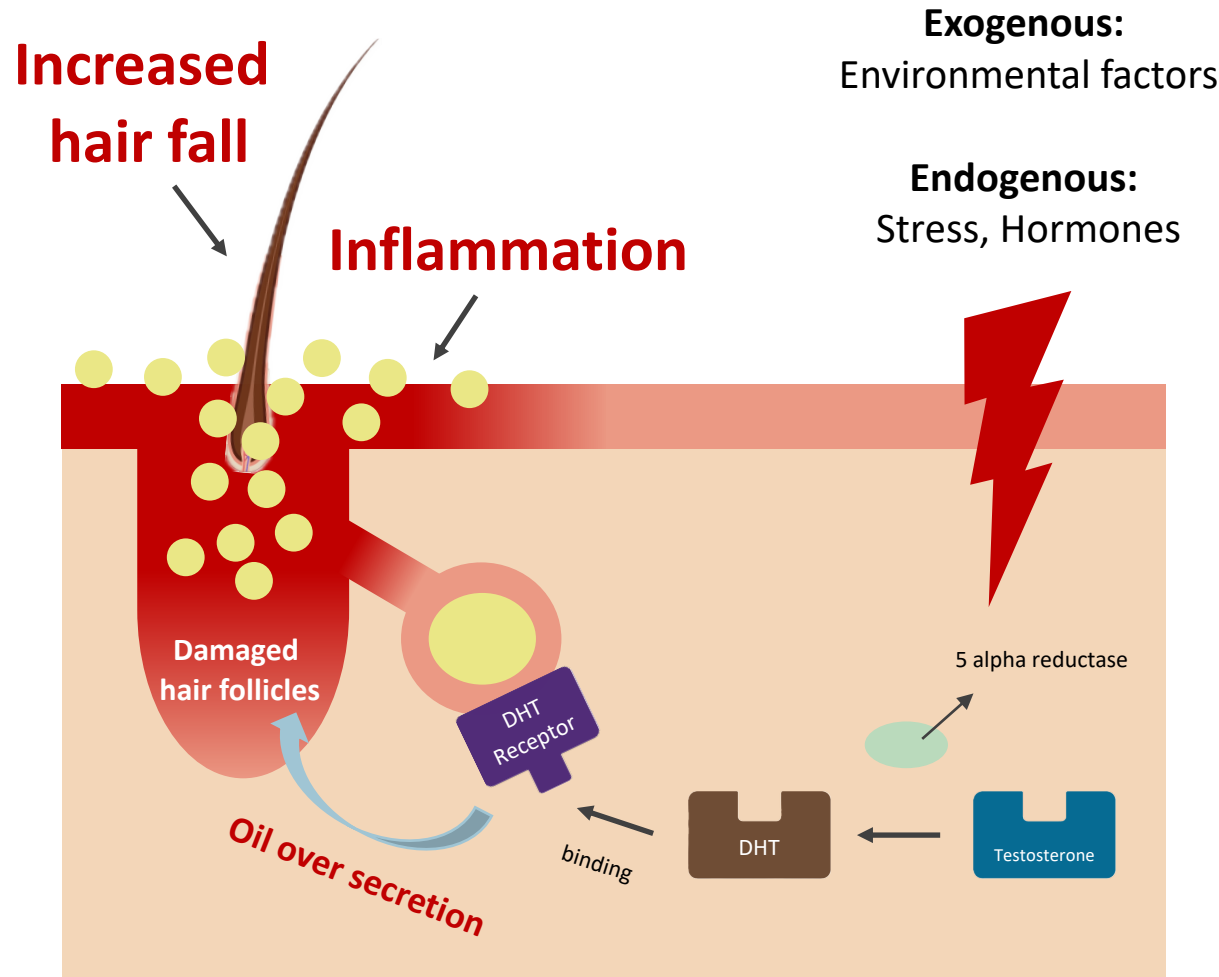
Deeply purifies excess oil, instantly mattifies,
oil & water balancing



Anti Hair-Loss

Deeply purifies, reduces follicle clogging &
inflammation, strengthens hair roots

Uniq-fresh Anti Hair-Loss mechanism



Rinse off hair fall test

Subject

10 Participants

Period

15 days continuously,
1 shampoo per day

Methods

For days 1-7, using the shampoo without Uniq-fresh recording the daily hair loss.

On day 8, shampooing was paused
(not recorded).

For days 9-15, using the shampoo with 1.5% Uniq-fresh, and recording the daily hair loss.



Rinse off hair fall test

Test Day	Average Hair Loss (unit)	Average Hair Loss for 7 Days
Day 1	62	64
Day 2	66	
Day 3	56	
Day 4	68	
Day 5	69	
Day 6	60	
Day 7	65	
Day 8	NO TEST	
Day 9	65	29
Day 10	32	
Day 11	22	
Day 12	18	
Day 13	23	
Day 14	25	
Day 15	19	

Result

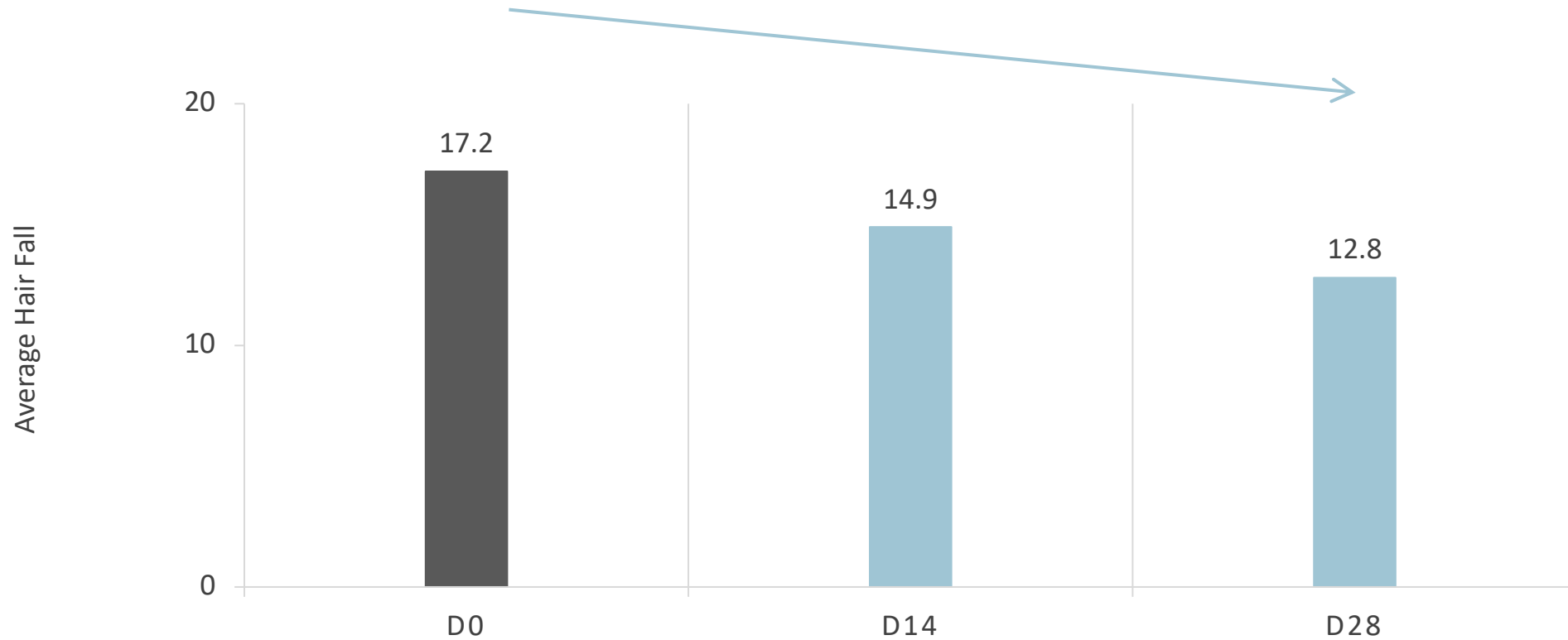
Hair loss reduced by **63%**

The amount of hair loss decreased on the second day of use.

Hair Root Strengthening Test (60-combing method)

Purpose	Evaluate 1.5% Uniq-fresh Shampoo anti-hair fall effect
Samples	1.5% Uniq-fresh Shampoo
Condition	20 subjects with hair fall problems, 50/50 male/female, age 20-50
Time	28 days, 3 test points (day 0, 14, 28)
Method	The subjects used the sample to clean their hair daily for 4 weeks, and evaluated the hair fall change by using the 60-combing method.

Hair Root Strengthening Test (60-combing method)



1.5% Uniq-fresh Shampoo can reduce hair fall by **25.6%** after 28 days of use.

Stability - 1.5% Uniq-fresh

Test Items	Condition	Color Change ?	Sedimentation ?	Precipitation ?	Other Changes ?
High Temperature	Heat to 100°C for 4 hours	Getting a little darker.	X	X	X
High Temperature	Constant 80°C for 4 hours	X	X	X	X
Low Temperature	Constant 4°C for 24 hours	X	X	X	X
Low Temperature	Freezing to -18°C for 24 hours, after rewarming (25°C)	X	X	X	X
Ionic Resistance	Add 3% NaCl to solution and observe for 30 days	X	X	X	X
Alcohol Resistance	Add 95% alcohol to 20% solution and observe for 30 days	X	X	X	X

1.5% Uniq-fresh can be stabilized in formulations

Stability - 5% Uniq-fresh

Test Items	Condition	Color Change ?	Sedimentation ?	Precipitation ?	Other Changes ?
High Temperature	Heat to 100°C for 4 hours	Getting a little darker.	X	X	X
High Temperature	Constant 80°C for 4 hours	X	X	X	X
Low Temperature	Constant 4°C for 24 hours	X	X	X	X
Low Temperature	Freezing to -18°C for 24 hours, after rewarming (25°C)	X	X	X	X
Ionic Resistance	Add 3% NaCl to solution and observe for 30 days	X	X	X	X
Alcohol Resistance	Add 95% alcohol to 20% solution and observe for 30 days	X	X	X	X

5% Uniq-fresh can be stabilized in formulations

Stability - pH

1.5% solution (Citric Acid / Triethanolamine)

Original pH

3.00 3.50 4.00 4.40 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50

Stability - pH

3% solution (Citric Acid / Triethanolamine)



Uniq-fresh UF-1.5

Item	Description
Function	Instant oil-control, Instant anti hair-loss
Specification	
Origin	Taiwan
Dosage	Cleaner: 0.5%-1.5% Facial Product : 1%-5%
Appearance	Light brown powder
Shelf Life	24 months
INCI	Mannitol, Camellia Sinensis Leaf Powder, Microcrystalline Cellulose, Zinc Gluconate, Arginine, Yeast Extract



Reference Resource

D. STAMATIADIS, MARIE-CLAIRE BULTEAU-PORTOIS, IRENE MOWSZOWICZ. November 1988.
Inhibition of 5 α -reductase activity in human skin by zinc and azelaic acid

M S Fahim, M Wang, M F Sutcu, Z Fahim. 1993 Nov-Dec;25(6):369-75.
Zinc arginine, a 5 alpha-reductase inhibitor, reduces rat ventral prostate weight and DNA without affecting testicular function

D Thiboutot, G Harris, V Iles, G Cimis, K Gilliland, S Hagari. 1995 Aug.
Activity of the type 1 5 alpha-reductase exhibits regional differences in isolated sebaceous glands and whole skin

Robert Arbuckle, Mark J Atkinson, Marci Clark, Linda Abetz, Jan Lohs, Ilka Kuhagen, Jane Harness, Zoe Draelos, Diane Thiboutot, Ulrike Blume-Peytavi, and Kati Copley-Merriman. 2008 Oct 16.
Patient experiences with oily skin: The qualitative development of content for two new patient reported outcome questionnaires. (Health Qual Life Outcomes)

T W Fischer , U C Hipler, P Elsner. 2007 Jan.
Effect of caffeine and testosterone on the proliferation of human hair follicles in vitro

T W Fischer , E Herczeg-Lisztes, W Funk, D Zillikens, T Bíró, R Paus. 2014 Nov.
Differential effects of caffeine on hair shaft elongation, matrix and outer root sheath keratinocyte proliferation, and transforming growth factor- β 2/insulin-like growth factor-1-mediated regulation of the hair cycle in male and female human hair follicles in vitro

Christine Lux-Battistelli. 05 March 2015.
Combination therapy with zinc gluconate and PUVA for alopecia areata totalis: an adjunctive but crucial role of zinc supplementation

Thank you

