



# iH<sub>2</sub>SKIN

1.00794

Premium Hydrogen Cosmetic

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# Introduction of iH<sub>2</sub> Cosmetics

## **Brand iH<sub>2</sub>**

Hydrogen advantage

Effect

Concept

Products





## Brand iH2

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What means iH2?

Utilizes hydrogen, the basic element of the universe, in beauty products, providing a new paradigm in the cosmetics market. Superior ingredients alongside traditional functional cosmetic materials for effective skin improvement.



# Brand iH2

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## iH2 Cosmetic Core Value



### **Raw Material Priority Principle**

Use of nature plant-derived raw materials



### **Patent Technology Development**

Development of proprietary patent technology to solve problems



### **No Harmful Ingredients Principle**

No harmful ingredients added



### **Innovation Pursuit**

Leading the market through constant change and development



### **Customer Satisfaction**

Providing the best quality and service



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# Introduction of iH<sub>2</sub> Cosmetics

Brand iH<sub>2</sub>

**Hydrogen advantage**

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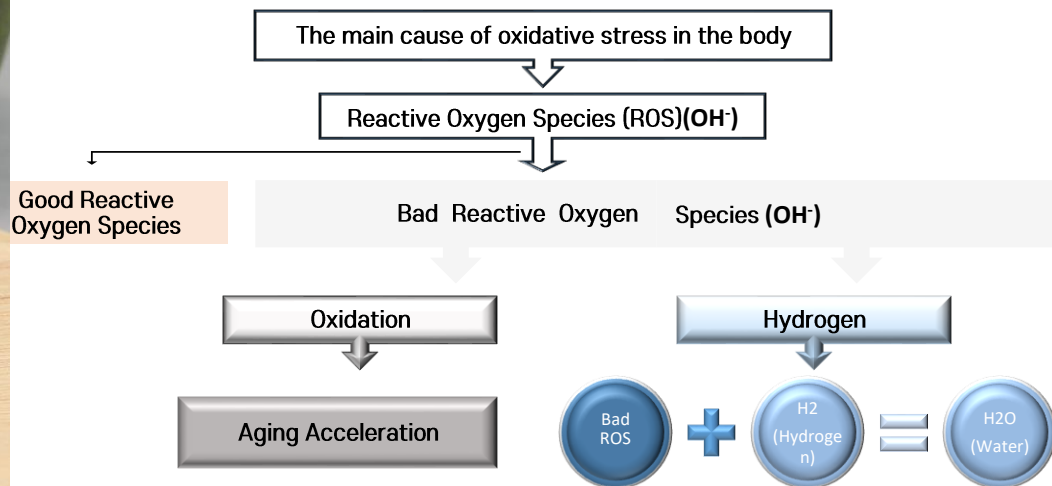
Products



# Advantages of Hydrogen

## Antioxidant action

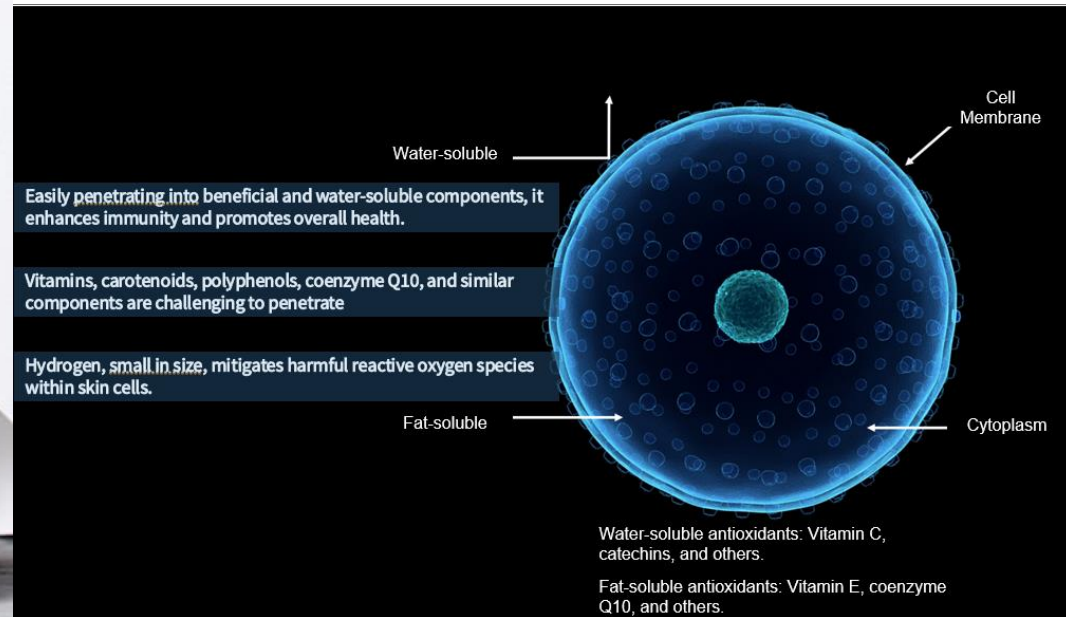
Hydrogen reacts with harmful reactive oxygen species, leaving beneficial reactive oxygen species, and converts them into water. This process can help prevent skin aging and maintain the immune system in our body.





## Advantages of Hydrogen

Hydrogen is the smallest element in matter, and it can be easily diffused anywhere in the body. It can be put in. Because of this diffusivity, it's not only useful in human cells, it's also water-soluble. It can penetrate easily, so it can keep the cells in our body healthy.

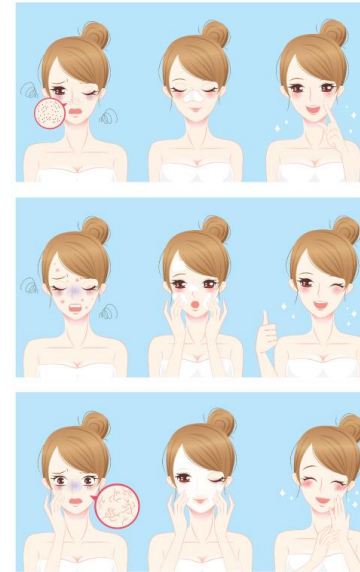


# H<sub>2</sub>SKIN Skin whitening

H<sub>2</sub>  
1.00PM

Reactive oxygen species oxidize skin components, causing blemishes, wrinkles, and loss of elasticity.

H<sub>2</sub>SKIN Hydrogen soap detoxifies skin by eliminating reactive oxygen species.



H<sub>2</sub>SKIN

## Anti-inflammatory action!

Hydrogen has been reported not only to have antioxidant effects but also to exhibit anti-inflammatory, anti-apoptotic, and anti-allergic effects. (Ota et al. paper)

**The action of hydrogen can be beneficial for individuals with skin troubles such as atopic dermatitis.**

### References

- Antioxidant for the skin– Nature Med 2007, jun 13
- Skin whitening, Melanin synthesis inhibition– J. nanosci. Nanotecnol. 2013. Jan 13
- Collagen synthesis promotion – J. photochem photobiol B. 2012. Jan 5
- Atopic relief – Pharm. Bull 2014. Mar.
- Antiallergic – Biochem, Biophys. RES, Commun. 2009. nov



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# Introduction of iH<sub>2</sub> Cosmetics

Brand iH<sub>2</sub>

Hydrogen advantage

**Effect**

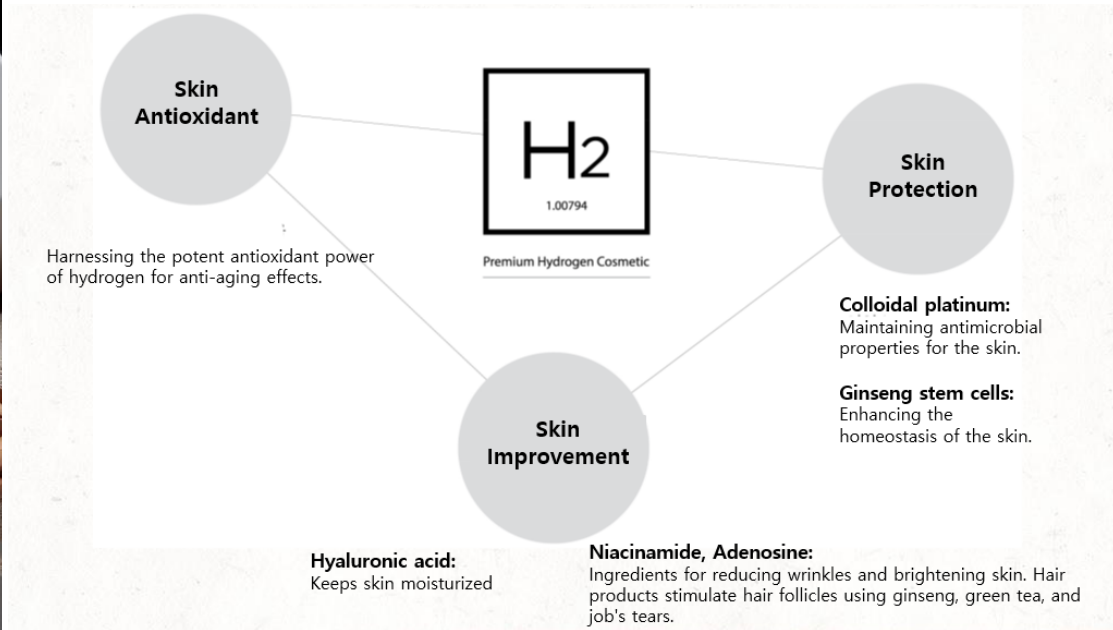
Concept

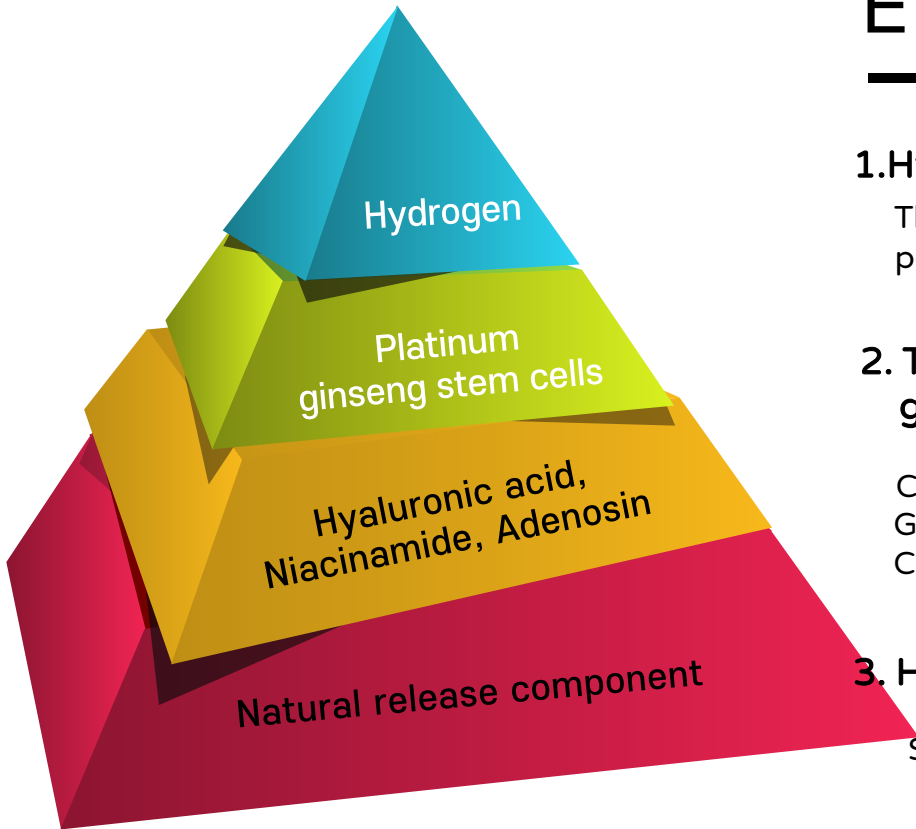
Products



# Effect

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# Effectt

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## 1. Hydrogen's anti-oxidative effect

The anti-aging effect utilizing hydrogen's potent antioxidative power

## 2. The skin-protective effects of platinum and ginseng stem cells

Colloidal platinum - Maintaining skin antimicrobial properties  
Ginseng stem cells - Enhancing skin homeostasis  
Ginsenosides – Cellular activation

## 3. Hyarulonic acid, niacinamide, adenosine

Skin moisturizing, whitening, and wrinkle improvement effects

## 4. Natural plant-derived ingredients

Recommended for troubled skin conditions such as atopic dermatitis



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# Introduction of iH<sub>2</sub> Cosmetics

Brand iH<sub>2</sub>

Hydrogen advantage

Effect

**Concept**

Products

# Concept

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# Concept

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# Skin irritation test

IP-6773-A

SMC-181130-6562

IP-6773-A

## I. 제출문 및 품질 보증

세명대학교 한방바이오산업 임상지원센터  
"H2SKIN 스칼프 매니지먼트 샴푸 외 6종"의  
위탁발표, 국제 접촉성 피부염 학회에서 제시  
한 임상 지침에 따라 국제 검증에 따라 실시  
된 임상 시험 결과에 대해 보고합니다.

모든 연구물 수행함에 있어서 연구 기밀을 및  
책임자(SIP)의 준수에 연구자 및 임상시험  
시험 결과(raw data)를 관리 감독할 것을 확  
언합니다.

2018년 11월

연구기관 : 세명대학교 한방바이오산업 임상지

연구책임자 : 세명대학교 한방바이오산업 임상지

## II. 요약문

### 목적

"H2SKIN 스칼프 매니지먼트 샴푸 외 6종"의 피부 첩포에 대한 안전성  
평가시험 연구

### 시 료

시험 시료 : H2SKIN 스칼프 매니지먼트 샴푸  
H2SKIN 스칼프 매니지먼트 트리트먼트  
H2SKIN 스킨  
H2SKIN 에센스  
H2SKIN 로션  
H2SKIN 울인원  
H2SKIN 리제네레이팅 크림  
시료 도포 : Finn chamber를 이용한 24시간 피부 첩포(패치첩포)

### 시험 일정

시작일: 2018년 11월 19일 / 종료일: 2018년 11월 22일

### 시험 기준

세명대학교 한방바이오산업 임상지원센터 자체 지침서에 준함

### 시험 부위

등 부위

### 시험 인원

30명

### 의 회 자

주식회사 에이치투스킨

### 연구 수행자

세명대학교 한방바이오산업 임상지원센터

### 연구 책임자

김 용 민

### 평가 방법

국제 접촉성 피부염 학회에서 제시하는 평가 기준에 따른 피부자극 평가

### 유효성 결과

주식회사 에이치투스킨에서 의뢰한 "H2SKIN 스칼프 매니지먼트 샴푸,  
H2SKIN 스칼프 매니지먼트 트리트먼트, H2SKIN 스킨, H2SKIN 에센스,  
H2SKIN 로션, H2SKIN 울인원, H2SKIN 리제네레이팅 크림"의 피부 첩  
포 안전성 인체적용시험 수행 결과, 피부자극도 (Mean score) 평가에 따  
라 무자극 제품군에 속함을 알 수 있었다.

### 연구 관리번호

IP-6773-A

### 보고서 관리번호

SMC-181130-6562

이 연령대

| 구분  | 참여<br>피험자<br>수 | 탈락 및 중도<br>탈락<br>수 | 시험을 종료한<br>총 피험자(명) |
|-----|----------------|--------------------|---------------------|
| 30대 | 14             | 0                  | 14 (47%)            |
| 40대 | 13             | 0                  | 13 (43%)            |
| 50대 | 3              | 0                  | 3 (10%)             |

시험자의 참여 연령대는 Fig. 1과 같다.

Fig. 1 시험자의 참여 연령대



시험자의 평균 연령대는 40.3세로 연령별로는 30대가 47%, 40대가 43%로 나타났다. 시험 도중 이상반응으로 탈락 또는 중도 탈락한 피험자는 참여한 피험자는 총 30%이다.

18

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SMC-181130-6562

1.2. 시험자 피부 유형 및 상태

시험자는 시험 전 피부 유형 및 피부 상태를 설문을 통해 자가 작성하였으며 그 결과는 Fig. 2와 같다.

Fig. 2 피부 상태에 대한 자가 설문 결과(단위: %)



19

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시험 결과, "H2SKIN 스킨"은 패치 제거 후 30분, 24시간, 48시간 모두에서 자극이 관찰되지 않았다. 평균 피부반응도는 0.00으로 피부 첩포시험(Patch Test)의 평가기준에 따라 "H2SKIN 스킨"은 무자극으로 판정되었다.

시험 결과, "H2SKIN 에센스"는 패치 제거 후 30분, 24시간, 48시간 모두에서 자극이 관찰되지 않았다. 평균 피부반응도는 0.00으로 피부 첩포시험(Patch Test)의 평가기준에 따라 "H2SKIN 에센스"는 무자극으로 판정되었다.

시험 결과, "H2SKIN 로션"은 패치 제거 후 30분, 24시간, 48시간 모두에서 자극이 관찰되지 않았다. 평균 피부반응도는 0.00으로 피부 첩포시험(Patch Test)의 평가기준에 따라 "H2SKIN 로션"은 무자극으로 판정되었다.

시험 결과, "H2SKIN 울인원"은 패치 제거 후 30분, 24시간, 48시간 모두에서 자극이 관찰되지 않았다. 평균 피부반응도는 0.00으로 피부 첩포시험(Patch Test)의 평가기준에 따라 "H2SKIN 울인원"은 무자극으로 판정되었다.

시험 결과, "H2SKIN 리제네레이팅 크림"은 패치 제거 후 30분, 24시간, 48시간 모두에서 자극이 관찰되지 않았다. 평균 피부반응도는 0.00으로 피부 첩포시험(Patch Test)의 평가기준에 따라 "H2SKIN 리제네레이팅 크림"은 무자극으로 판정되었다.

"H2SKIN 스칼프 매니지먼트 샴푸"는 패치 제거 후 30분, 24시간, 48시간 모두에서 자극이 관찰되지 않았다. 평균 피부반응도는 0.00으로 피부 첩포시험(Patch Test)의 평가기준에 따라 "H2SKIN 스칼프 매니지먼트 샴푸"는 무자극으로 판정되었다.

"H2SKIN 매니지먼트 트리트먼트"는 패치 제거 후 30분, 24시간, 48시간 모두에서 자극이 관찰되지 않았다. 평균 피부반응도는 0.00으로 피부 첩포시험(Patch Test)의 평가기준에 따라 "H2SKIN 매니지먼트 트리트먼트"는 무자극으로 판정되었다.

IP-6773-A

SMC-181130-6562

주식회사 에이치투스킨  
"H2SKIN 스칼프 매니지먼트 샴푸 외 6종"의  
피부 첩포 안전성 평가  
인체적용시험 결과보고서

2018년 11월 30일

한방바이오산업 임상지원센터  
The Clinical Trial Center for Bio-Industry at Seungmyeong University

IP-6773-A

SMC-181130-6562

## II. 요약문

| 구분       | 내용   |
|----------|--|
| 목적       | "H2SKIN 스칼프 매니지먼트 샴푸 외 6종"의 피부 첩포에 대한 안전성 평가시험 연구  |
| 시 료      | 시험 시료 : H2SKIN 스칼프 매니지먼트 샴푸<br>H2SKIN 스칼프 매니지먼트 트리트먼트<br>H2SKIN 스킨<br>H2SKIN 에센스<br>H2SKIN 로션<br>H2SKIN 울인원<br>H2SKIN 리제네레이팅 크림<br>시료 도포 : Finn chamber를 이용한 24시간 피부 첩포(패치첩포)  |
| 시험 일정    | 시작일: 2018년 11월 19일 / 종료일: 2018년 11월 22일  |
| 시험 기준    | 세명대학교 한방바이오산업 임상지원센터 자체 지침서에 준함  |
| 시험 부위    | 등 부위   |
| 시험 인원    | 30명  |
| 의 회 자    | 주식회사 에이치투스킨  |
| 연구 수행자   | 세명대학교 한방바이오산업 임상지원센터   |
| 연구 책임자   | 김 용 민  |
| 평가 방법    | 국제 접촉성 피부염 학회에서 제시하는 평가 기준에 따른 피부자극 평가   |
| 유효성 결과   | 주식회사 에이치투스킨에서 의뢰한 "H2SKIN 스칼프 매니지먼트 샴푸,<br>H2SKIN 스칼프 매니지먼트 트리트먼트, H2SKIN 스킨, H2SKIN 에센스,<br>H2SKIN 로션, H2SKIN 울인원, H2SKIN 리제네레이팅 크림"의 피부 첩<br>포 안전성 인체적용시험 수행 결과, 피부자극도 (Mean score) 평가에 따<br>라 무자극 제품군에 속함을 알 수 있었다. |
| 연구 관리번호  | IP-6773-A  |
| 보고서 관리번호 | SMC-181130-6562  |

IP-6773-A

한방바이오산업 임상지원센터  
SMC-181130-6562

IP-6773-A

SMC-181130-6562

27

한방바이오산업 임상지원센터

28

한방바이오산업 임상지원센터

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# Introduction of iH<sub>2</sub> Cosmetics

Brand iH<sub>2</sub>

Hydrogen advantage

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**Products**



## Name of the product

H2SKIN Women' s Skincare

## Ingredients

Niacinamide, hydrogenated polydecene, sodium hyaluronate, ginsenosides, colloidal platinum, glycerin, polyglyceryl-6 caprylate, polyglyceryl-3 cocoate, polyglyceryl-4 caprate, polyglyceryl-6 ricinoleate, purified water, butylene glycol, hydroxyethyl acrylate/sodium acryloyldimethyl taurate copolymer, protease, 1,2-hexanediol, lavender oil

## Description

As a toner that acts at the beginning of basic makeup, it contains hydrogenated compounds and colloidal platinum to provide antioxidant effects, while protease helps to organize the skin's keratin, assisting in the function of subsequent steps of basic makeup.

## Whitening functional

[Active Ingredient] Niacinamide (whitening)

[Effects] Nourishes the skin, leaving it soft and healthy.

[Directions for Use] After rinsing the face with lukewarm water, dispense an appropriate amount and apply it evenly onto the skin, gently massaging to aid absorption.





## Name of the product

H2SKIN Women' s Lotion

## Ingredients

Adenosine, hydrogenated polydecene, sodium hyaluronate, ginsenosides, colloidal platinum, glycerin, PEG-100 stearate, glyceryl stearate, polysorbate 60, hydroxylated polydecene, cetearyl alcohol, caprylic/capric triglyceride, beeswax, dimethicone, tocopheryl acetate, stearic acid, C14-22 alcohol/C12-20 alkyl glucoside, purified water, lavender oil.

## Description

As a gentle lotion with a soft texture, it provides antioxidant effects to the skin with hydrogenated compounds and colloidal platinum, nurturing it to a healthy state. Additionally, the inclusion of white mushroom extract ensures gentle moisturization, keeping the skin hydrated without any burden.

## Wrinkle improvement functionality

[Active Ingredient] Adenosine (Wrinkle)

[Effects]: Improves skin wrinkles, leaving it smooth and healthy.

[Directions for Use] After using toner, dispense an appropriate amount and apply it evenly onto the skin, gently massaging to aid absorption.



## Name of the product

H2SKIN Essence

## Ingredients

Adenosine, niacinamide, hydrogenated polydecene, ginsenosides, colloidal platinum, sodium hyaluronate, hydroxyethyl acrylate, sodium acryloyldimethyl taurate copolymer, C14–22 alcohol, C12–20 alkyl glucoside, polyglyceryl–6 caprylate, polyglyceryl–3 cocoate, polyglyceryl–4 caprate, polyglyceryl–6 ricinoleate, purified water, caprylic/capric triglyceride, 1,2–hexanediol, lavender oil.

## Description

A dual–functional cosmetic that provides adequate hydration, wrinkle improvement, and whitening effects for the skin. Hydrogenated compounds and colloidal platinum offer antioxidant benefits, nurturing the skin to a healthy state. Additionally, the inclusion of Na–Hyaluronate ensures effortless maintenance of skin moisture.

## Whitening/Wrinkle Improvement/Dual–functional cosmetic

[Active Ingredients] Adenosine (Wrinkle), Niacinamide (Whitening)

[Effects] Helps improve skin whitening and wrinkle reduction.

[Directions for Use] After applying toner during the basic makeup routine, dispense an appropriate amount and apply it evenly onto the skin, gently massaging to aid absorption.



## Name of the product

H2SKIN Regenerating Cream

## Ingredients

Adenosine, dipalmitoylhydroxyproline, acid fired hydrogen powder, ginsenoside, platinum colloid, sodium hyaluronate, glycerin, butylene glycol, dysodium edithiae, glycerylstearate, polyglyceryl-6 caprylate, polyglyceryl-3 coate, polyglyceryl-4 caprylate, polyglyceryl-6 lysinolate, purified water, ceteraryl alcohol, MCT, hydrogenated polydecene, dimethicone, tocopheryl acetate

## Description

As a mild cream that returns rough skin to health, hydrides and colloidal platinum give antioxidant effects to the skin, make it healthy, and protect skin moisture without any burden by containing Na-Hyaluronate and white wood ear mushroom extract. It contains a bottle grass extract that restores skin health, and Acetyl Hexapeptide-8 keeps skin healthy.

## Improvement functional cosmetics

[Active ingredient] Adenosine (wrinkle)

[Effects]: It will keep your skin soft and smooth.

[Directions for Use] After applying the essence in the basic makeup stage, take an appropriate amount and apply it closely to the skin to absorb it.



## Name of the product

H2SKIN All In One

## Ingredients

Adenosine, niacinamide, hydrogen fluoride powder, ginsenoside, colloidal platinum, sodium hyaluronate, hydroxyethyl acrylate, acryloyl dimethyltaurate, dimethicone, vinyltrimethylsiloxysilicate crosspolymer, capryl glycol, ethylhexylglycerin, pig40 hydrogenated castor oil, menthol, denatured alcohol, yellow root extract, hallyeoncho extract, golden extract, mulberry bark extract

## Description

It is a men's cosmetic that encompasses toner, lotion, essence, and cream, and contains hydrides, colloidal platinum, yellow root extract, Hanryeoncho extract, golden extract, and mulberry bark extract to give an antioxidant effect and is responsible for moisturizing the skin by Na-Hyaluronate.

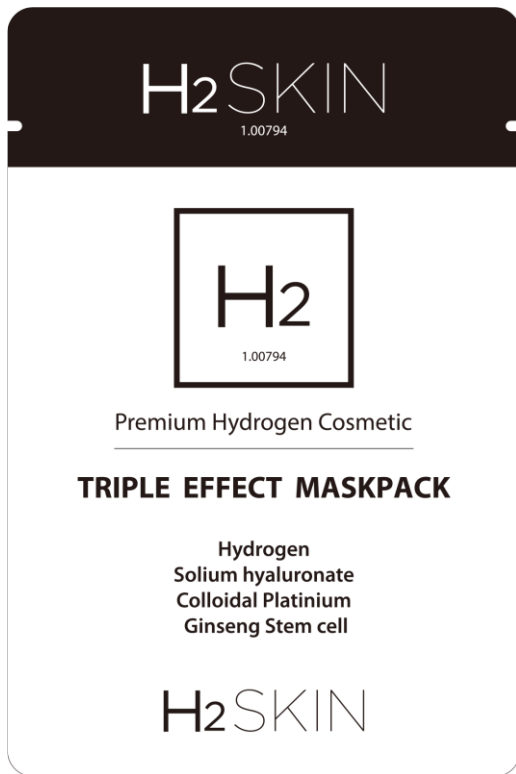
## skin bleaching/wrinkle improvement/ dual functional cosmetics

[Active ingredients] Adenosine (wrinkle), niacinamide (whitening)

[Effects] Help and wrinkles on the skin of the skin.

[Directions for Use] Apply sufficient amount of appropriate amount of proper amount after being absorbed.





## Name of the product

H2SKIN Triple effect maskpack

## Ingredients

Purified water, glycerin, dipropylene glycol, niacinamide, hydroxyacetophenone, hydroxyethylacrylate/acryloyl dimethyltaurate copolymer, adenosine, xanthan gum, sorbitan isostearate, polysorbate 60, disodium edithia, ethyl ascoville etel, tocopheryl acetate, panthenol, sodium hyaluronate, ginseng potassium culture extract, cyanocobalamin, ginsenoside, platinum chloride, calcium oxide

## Description

It is a bifunctional mask that cleans the skin with coral powder (CaO) ingredients and contains various vitamins (C,E,B5,B12) inducers to add vitality to the skin.

## skin bleaching/wrinkle improvement/ dual functional cosmetics

[Active ingredients] Adenosine (wrinkle), niacinamide (whitening)

[Effects] Help and wrinkles on the skin of the skin.

[Directions for Use]

1. After washing your face, cleanse your skin with toner.
2. After opening this product, the mask fits well with the eyes and mouth, adheres well to the skin, absorbs for 15–20 minutes, removes the mask, and gently pats the remaining contents on the skin to absorb it.



## Name of the product

H2SKIN Hydrogen beauty Soap

## Ingredients

Coconut oil and vegetable oil, Coral calcined hydrogen powder, Glycerin, Grape seed oil, Apricot seed oil, Avocado seed oil, Omija extract, Castor oil, white rye root extract, Seokchangpo extract, Apricot seed extract, Mugwort extract, Sophora root extract, Silkworm extract, Ginko Biloba, Extracts of persimmon leaves, mung bean, angelica root, and lavender oil.

## Description

A cleansing soap with a smooth and rich lather that cleanses the skin and face thoroughly. It contains hydrogen compounds for antioxidant effects, while glycerin and coconut oil assist in moisturizing the skin. An excellent cleansing soap with outstanding cleansing power that even removes makeup.

[Effects] It cleanses your face and whole body.

[Directions for Use] Rub it gently as if massaging and wipe it off with lukewarm water after 2–3 minutes



## Name of the product

H2SKIN Scalp management Shampoo

## Ingredients

Coral calcined hydrogen powder, Ginsenoside, Platinum cloid, Sodium methylcocoyltaurate, Hydroxyacetophenone, Polyquantium -7, Sodium Coil Apple Amino Acid, Lauramido propyl betaine, Hwanggi root extract, Hanryeon vinegar extract, Golden extract, Mulberry bark extract, Ethanol, Medicinal wheat extract, Green tea extract, Cider leaf extract, Lavender oil

## Description

As a hypoallergenic shampoo that works smoothly on hair, it contains hydrides, colloidal platinum, yellow root extract, Hanryeoncho extract, golden extract, and mulberry bark extract to give antioxidant effects, and eoseongcho extract, cava leaf extract, and green tea extract make the scalp healthy.

[Effects] It keeps your scalp and head healthy and clean.

[Directions for Use] After wetting the hair with lukewarm water, take an appropriate amount and rub it on the scalp and hair as if it were a massage to make foam and rinse it with lukewarm water.



## Name of the product

H2SKIN Scalp Treatment

## Ingredients

Coral calcined hydrogen powder, Ginsenoside, Platinum cloid, Cetaryl alcohol, Glycerin, Polyquantium-7, Behentrimonium Chloride, 1,2-Hexanediol, camellia seed oil, olive oil, Xylitylthylglucoside, Anhydroxylitol, xylitol, Tocopheryl acetate, Dysodium Edita, Lavender oil

## Description

As a mild hair treatment that works smoothly on the hair, it contains hydrides and colloidal platinum to give antioxidant effects, olive oil and camellia oil protect and make the hair shiny, and birch-derived materials such as xylitol help keep the hair healthy.

[Effects] It keeps your scalp and hair clean and healthy

[Directions for Use] After shampooing your hair, take an appropriate amount and apply it to your scalp and hair, massage it, and rinse it with lukewarm water.



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**i**H<sub>2</sub>SKIN

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Premium Hydrogen Cosmetic