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Anallerg series

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Anallerg® -- Vitamika®

INCI name: TOCOPHERYL RETINOATE

Product Description

Anallerg® -- Vitamika® is an esterification form of two vitamins, tocopherol (vitamin E) and retinoic acid (vitamin A). **Anallerg® -- Vitamika®** not only has both effect of tocopherol and retinoic acid, but also reduces skin irritation when using retinoic acid alone, ensuring high activity of the two, and has good safety, gentleness, and stability. **Anallerg® -- Vitamika®** can inhibits lipid peroxide induced cell damage, inhibit UV induced DNA damage, and promotes the synthesis of hyaluronic acid and collagen. It has the effects of antioxidants and skin protectors.



Appearance	Light yellow to yellow oily viscous liquid
Smell	Slight characteristic odor
Specifications	10%, custom production accepted
Solubility	Soluble in oil

Information for filing

- Purpose of use of raw materials: antioxidants, skin protectants.
- Filing No: 国妆原备字 20230019

Apply

- Efficacy: Antioxidant, scavenge free radicals and reactive oxygen species, resist photoaging, protect cells from UV damage, promote epidermal regeneration, regeneration, differentiation, and improve pigmentation
- Advantages: More stable, milder, no phototoxicity, formula application is more flexible and convenient
- Formula suggestions: applicable to essence, lotion, face cream and oil form products
- Recommended dosage: 1.0-5.0% recommended (10% specification)

An invention patent of China (CN 202210588388.6)

申请号或专利号: 202210588388.6	发文字号: 2022081700779910
申请人或专利权人: 上海元萃科技有限公司	
发明创造名称: 一种生育酚视黄酯的制备方法	
发明专利申请公布及进入实质审查阶段通知书	
上述专利申请, 经初步审查, 符合专利法实施细则第 41 条的规定, 根据专利法第 34 条的规定, 该申请	

Efficacy test

- Repeated Insult Patch Test, RIPT

Group	Number of participants	Time	Number of people with different levels of skin irritation				
			Level 0*	Level 1	Level 2	Level 3	Level 4
Sample (5%)	30	0.5h	30	0	0	0	0
		24h	30	0	0	0	0
		48h	30	0	0	0	0
Control	30	0.5h	30	0	0	0	0
		24h	30	0	0	0	0
		48h	30	0	0	0	0

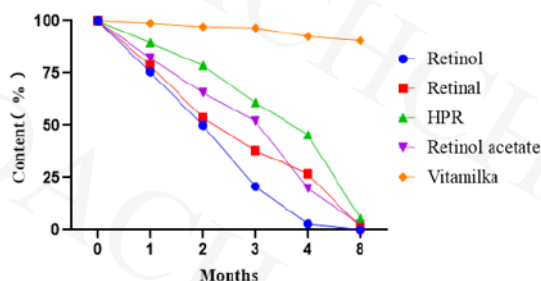
Level 0*: Negative Reaction

- Stability testing (8 months) : The active substance content is above 90% of the initial content

Test conditions	Appearance		Smell		Colour	
	0天	8个月	0天	8个月	0天	8个月
Below 10 °C	√	√	√	√	√	√
RT (-5°C-40°C)	√	√	√	√	√	√
50°C	*	√	√	√	√	*
Lighting	√	√	√	√	√	√

Note: "√" represents that there is no change in appearance, color, or odor, and it meets the standard; * "indicates a slight orange yellow color

- Stability of VA and its derivatives at 45 °C



- Skin phototoxicity: Not phototoxic (the skin reaction score for 72 h is 0)

NO.	BW	1h				24h				48h				72h				
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
1	264.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	270.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	268.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	265.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	262.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	259.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

According to the "Measures for the Administration of Cosmetics Registration and Filing" and the "Regulations on the Supervision and Administration of Cosmetics" in China, this cosmetic ingredient is still in the safety monitoring period, therefore it cannot be claimed to have any efficacy more than antioxidants and skin protectors.

Anallerg® - MN

INCI name: MYRISTYL NICOTINATE

Product Description

Anallerg® - MN can be transformed into nicotinamide adenine dinucleotide (NAD⁺), which plays a role in regulating cellular metabolic processes. Therefore, **Anallerg®** - MN can thicken the skin, promote epidermal cell renewal, accelerate metabolism, make the skin delicate and smooth, reduce transdermal water loss and increase the water retention capacity of the epidermal layer, enhance the efficacy of other ingredients and alleviate irritation, prevent hair loss and growth.



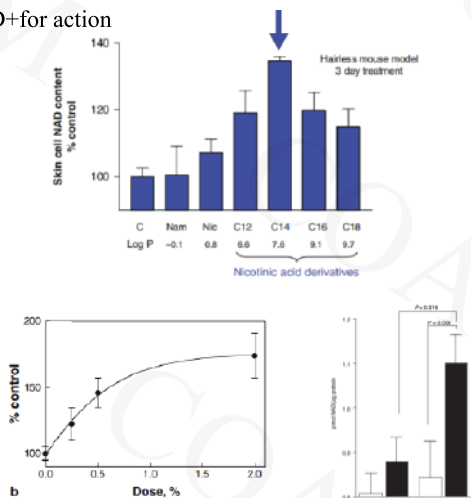
Appearance	White to off-white powder
Smell	Slight characteristic odor
Pureness(HPLC-DAD)	>99%

Apply

- Efficacy: Prevent hair loss and growth, eliminate free radicals.
- Formula suggestion: Soluble in polar oil/esters and can participate in the emulsification process. Applicable to all kinds of cream and lotion, such as eye cream, essence, anti wrinkle cream, body cream, etc.
- Recommended dosage: 0.2%-5% .

Action Mechanism

- As a hydrochloric acid donor, **Anallerg®** - MN can effectively transfer niacin into cells and convert it into NAD⁺ for action



Efficacy test

- Treating female hair loss: Double blind design for 6 months, using standardized photography to evaluate the improvement of hair abundance.

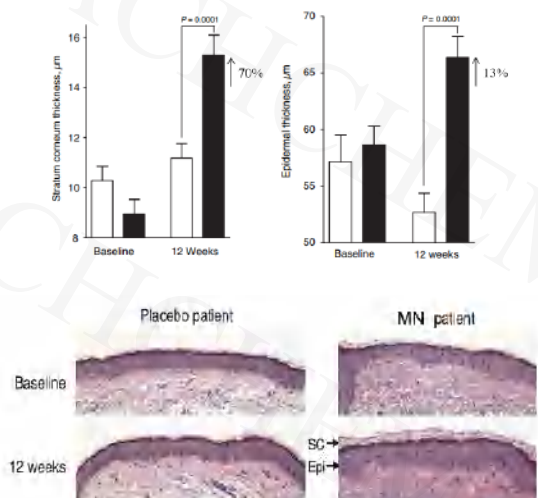


Group	No of subjects	Scoring of hair growth number of subjects (% of total)			P value†
		Decrease	No change	Increase	
Placebo	20* (12†)	1 (8%)	7 (59%)	4 (33%)	-
Active§	40* (32†)	2 (6%)	8 (25%)	22 (69%)	0.04

- Clearing free radicals: At a concentration of 1.25%, **Anallerg®** -MN can significantly scavenge DPPH radicals.

% (v/v)	Clearance rate (%)
1.25	3.94 ± 2.97
0.625	4.43 ± 1.88
0.3125	6.10 ± 4.39
0.15625	4.84 ± 2.25
0.078125	2.01 ± 0.51

- Barrier repair: can effectively thicken the epidermis and enhance skin barrier function.



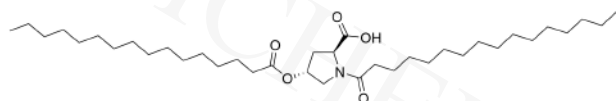
Anallerg® - DH

INCI name: DIPALMITOYL HYDROXYPROLINE

Product Description

Dipalmitoyl hydroxyproline is an amphiphilic molecule that is highly compatible with the skin. So **Anallerg®** - DH can serve as a biological excipient for hydroxyproline, allowing it to be directly replenished through the skin and achieve targeted effects, and simultaneously improving the skin permeability of **Anallerg®** - DH.

The enzymes related to lipid metabolism in the stratum corneum of the skin can hydrolyze dipalmitoyl hydroxyproline, release hydroxyproline, and leave fatty groups on the surface of the skin to form an oil protective layer.



CAS号: 41672-81-5

Appearance	White to off-white powder
Solubility	liposolubility
Smell	Slight characteristic odor

Apply

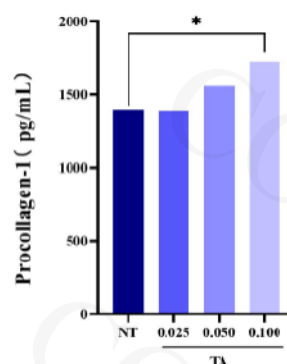
- Efficacy: Tight, moisturizing and repairing, with a ceramide like structure and good permeability. Compared to vitamin A series, it is mild and non irritating, and can be used for sensitive skin.
- Formula suggestion: It is hot soluble in polar oil/esters and can participate in the emulsification process. Applicable to all kinds of cream lotion, such as face cream, eye cream, lipstick, essence, body cream, etc
- Recommended dosage: 0.2-2%.

Action Mechanism

- DH can further maintain skin hydration by immobilizing water molecules, while also stabilizing collagen structure.
- DH promotes fiber regeneration of ECM and promotes the interaction between cells and ECM, thereby stimulating collagen production and compaction.
- DH has anti Elastase activity and can protect elastic fibers.
- Antioxidants, clearing free radicals from the skin.
- Ceramide like structure, moisturizing and repairing.

Efficacy test

- Promote collagen production: 0.100mg/mL of **Anallerg®** - DH significantly increased the relative content of **type I collagen** by 23.61% (P<0.05)



- Moisturizing effect: After 24 hours under the condition of 20-40 °C, the moisturizing rate reaches over 93%, indicating good moisturizing properties.

sample (20°C)	Moisturizing rate for 12 hours		Moisturizing rate for 24 hours	
	%	RSD	%	RSD
Comparator product 1	92.21	2.87	91.07	2.2
Comparator product 2	94.97	0.16	94.65	0.15
Formula 1	95.11	0.17	94.02	0.04
Formula 1	95.28**	0.60	94.23**	0.56

sample (20°C)	Moisturizing rate for 12 hours		Moisturizing rate for 24 hours	
	%	RSD	%	RSD
Comparator product 1	93.58	0.04	93.55	0.03
Comparator product 2	94.39	0.03	93.96	0.15
Formula 1	93.71	0.00	93.74	0.01
Formula 1	93.70**	0.21	93.73**	0.22

- Promote wound healing: **Anallerg®** - DH. can promote skin healing, with a healing rate of over 48%

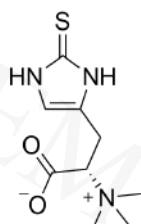
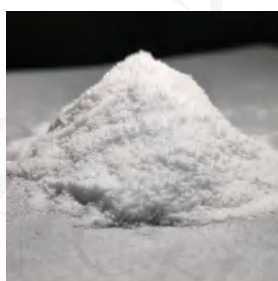
Sample number	Healing rate of the control group (%)	Healing rate of the treatment group (%)	The increase in healing rate (%)	Average increase in healing rate (%)
1	25.24	35.52	40.72	48.84
2	25.68	38.70	50.70	
3	25.13	36.77	46.31	
4	25.20	36.72	45.71	
5	24.24	39.37	62.42	
6	20.93	30.81	47.20	

Anallerg® -- Reyouth

INCI name: ERGOTHIONEINE

Product Description

Ergosulfon is a natural antioxidant, and also has a skincare active ingredient that can resist light aging, remove yellow and brighten skin, and stabilize and protect color. The research shows that ergot has stronger anti-hydroxyl radical, peroxy radical and peroxynitrite radical activity compared with classical antioxidants GSH (glutathione), vitamin E, uric acid, etc. In addition, ergot is a multifunctional active additive because its antioxidant activity is better than that of coenzyme Q10 or edibenti, and it is relatively more effective in the direct elimination of free radicals and protection of cells from the ROS induced by ultraviolet radiation.



CAS:497-30-3
N.W:229.30
M.F: C₉H₁₅N₃O₂S

Appearance	White to off-white powder
Specifications	0.3%, 0.5%, 1.0%, 99% (pure product) customize specifications according to customer requirements
Smell	Characteristic odor
Pureness(HPLC-DAD)	>99%
Solubility	Water-Solubility

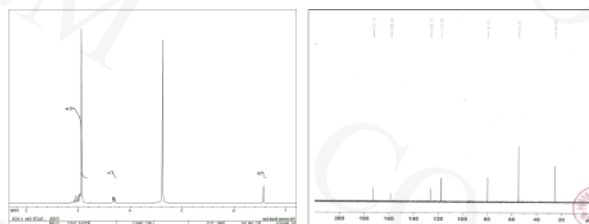
Apply

- Efficacy: natural antioxidant, anti-aging, anti-yellowing and brightening, stable color protection, skin protection.
- Formula Application: applicable to water, essence, facial mask, cream lotion, freeze-dried powder and other systems.
- Formula Suggestion: It is recommended to dissolve the mixture with water in advance under 45 ° C, and then add the mixture and stir it evenly.
- Recommended Dosage: 0.006% - 0.1% (pure product)

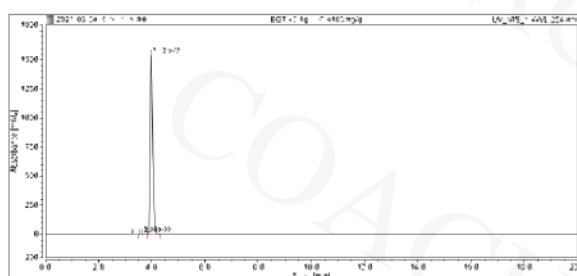
Product Advantages

- Coachchem has solved many difficulties in the synthesis of ergothione for 2 years, and has successfully prepared **Anallerg®** -- Reyouth, namely ergot mercaptan, has a high purity (more than 99.0%) and has achieved mass production. It fills the gap of mass production of high-purity products in China and has a high cost performance.

- High purity, high content



H-NMR spectrum of ergothione (EGT)1 C-NMR spectrum of ergothione (EGT)1



HPLC-DAD Chromatogram of ergothione purity

- An invention patent of China (ZL 202010531308.4)



★ Authoritative endorsement

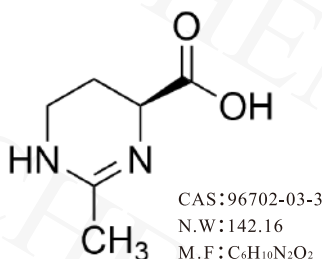


Anallerg® -- Ectoin

INCI name: ECTOIN

Product Description

Ectoin is an active substance with multiple cell protection effects. Its mechanism of action is simple but its effect is very powerful. It can protect skin cells from all damaging factors, and also has certain moisturizing and anti-inflammatory effects. It is a comprehensive defense factor for skin.



Appearance	White to off-white solid powder or particle
Specifications	Characteristic odor
Solubility	Water-Solubility
Pureness(HPLC-DAD)	>99%
pH (2% aqueous solution, 25 °C)	5.0-7.0

Apply

- Efficacy: prevent and improve light aging, isolate/sunscreen/ resist blue light, protect the whole cell, moisturize the skin for a long time, repair the skin barrier, relieve inflammation and allergy, protect the immune system, and protect DNA.
- Formula Application: applicable to water, essence, facial mask, cream lotion, freeze-dried powder and other systems.
- Formula Suggestion: It is recommended to dissolve the solid powder with water in advance below 45°C, and then add the material and stir it evenly.
- Recommended Dosage: 0.3-2.0%.

Product Advantages

- Using “chiral catalysis technology”, the optical rotation value is higher and the optical purity is higher
- High purity: purity above 99%, high content
- Efficacy and activity: the anti-inflammatory activity is better than that of common Ecdoxine

- Chiral catalytic technology, better activity

Product name	Anallerg® -- Ectoin	Ordinary Ectoin
[α] ²⁰ D	180	140
Spec.PH value(2%;water)	5.0-7.0	6.0-8.0
Acid-base property	Weak acidity	Near neutral

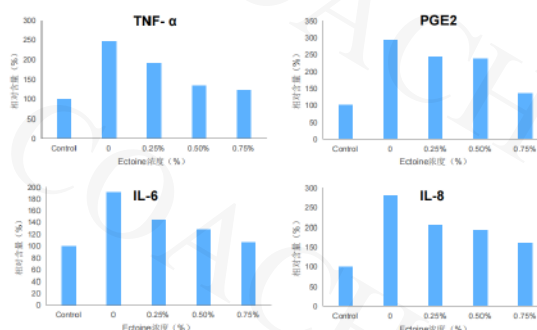


Before tearing off



After tearing off

Patch test results: **Anallerg® -- Ectoin** is better than the commercially available Ectoin, improving the stimulation sources IS45, nicotinamide and K12: Ectoin-160>Ectoin-140>>blank.



Patch test results: According to the experimental results, **Anallerg® -- Ectoin** with an optical rotation value of 180 has more significant anti-inflammatory effect, and the recommended minimum dosage is 0.5%

★ Authoritative endorsement



★ An invention patent of China (ZL 201810002838.2)



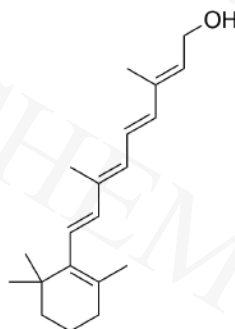
Anallerg® -- Pure-origin®

INCI name: RETINOL

Product Description

Retinol is one of the earliest discovered vitamins and an essential nutrient for the body. It affects almost all tissues and cells of the body in different ways. In particular, it plays a more prominent role in regulating the growth of epithelial cells and maintaining the normal morphology and function of epithelial tissue. Therefore, it can effectively prevent skin keratinization, increase skin elasticity, keep skin moist and shiny, and help to treat acne, pustule, pigmentation and other symptoms.

CAS: 68-26-8
N.W: 286.46
M.F: C₂₀H₃₀O



Appearance	Retinol-10C: milky yellow to yellow flowing liquid Retinol-50C: yellow to amber high-viscosity liquid with crystals at low temperature Pure-origin®-10A: Light yellow to yellow oil soluble liquid
Specifications	10% nano lotion, 10% oil solution, 50% liquid
Smell	Characteristic odor
Retinol Content	Retinol-10C: 8.5%-10.0% Retinol-50C: 42.75%-49.50% Pure-origin®-10A: 8.0%-10.0%
PH	PH value of Retinol-10C (10% aqueous dispersion, 25 °C): 3.50-6.50

Apply

- Efficacy: anti wrinkle, anti-aging, and firming; Anti-acne, oil control, fine pores, increase gloss; Light spots, balance pigmentation; Repair and solve irregular inflammation
- Formula Suggestions:
 - 1、 It is recommended that the product be added at the low temperature (below 37 ° C) of the formula.
 - 2、 It is recommended to be used in various cosmetics, essence, lotion and cream.
 - 3、 Retinol content is between 0.05% and 0.3%. Excessive concentration can cause skin irritation.
 - 4、 The product stability can be improved by adding chelating agent or UV protective agent in the formula at low temperature (below 37 ° C).
- Recommended Dosage: 0.8-2% (10A)、 0.8-2% (10C)、 0.1-0.2% (50C)

Application Suggestions

- Retinol has a strong ability to promote skin renewal. Different skin types have different sensitivity. Users need to be reminded to conduct local skin tolerance assessment before using the product, such as arm and ear. Cosmetics using Retinol should be patch tested to avoid irritation.
- During the use of Retinol cosmetics, attention should be paid to sun protection during the day.
- Retinol cosmetics are recommended for pregnant and pregnant women to avoid using. Retinol-containing products. It is recommended to use retinol at night or in combination with sunscreen for 2-3 days. There will be redness, peeling pain, itching, dryness and other phenomena. During this period, it can be improved by moisturizing, such as adding ceramide to alleviate the symptoms or suspended for 1-2 days when the symptoms are serious.
- Retinol products can be used after the establishment of tolerance. Avoid mixing with acid products

Product Advantages

- Various specifications, accept customization.
- Pure-origin®-10A can be used for all-oil system.
- Retinol-10C Retinol is wrapped by nanotechnology, improving the stability of the active substance and greatly reducing irritation. It can be dispersed in any proportion in water, and the formula is convenient.
 - 1、 High stability.
 - 2、 Hypoexcitability.
 - 3、 Easy to penetrate and absorb.

★ Authoritative endorsement

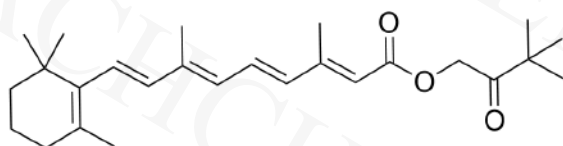


Won the PCHi
“Fountain Award”

COSMOS

Product Description

HPR is a cosmetic grade ester of retinoic acid. Its unique feature is that it has inherent retinoic acid activity and directly binds to retinoic acid receptor without metabolic decomposition into a more biologically active form. Compared with retinol, it has been proved to be more stable and less irritating to the skin. HPR is an effective substitute for some vitamin A with weak efficacy and retinoic acid, and has no harmful side effects.



CAS: 893412-73-2
N.W: 398.57
M.F: C₂₆H₃₈O₃

Appearance	Yellow to orange crystalline powder (pure product)
Specifications	10%, 99% (pure product)
Smell	Characteristic odor
Pureness(HPLC-DAD)	>99%
Solubility	Insoluble in water, soluble in some organic solvents (pure product)

Apply

- Efficacy: anti-aging, anti-wrinkle, improve skin texture, whiten and lighten spots, reduce skin melanin, remove acne, and assist in treating acne.
- Formula suggestions:

1、 It is recommended to dissolve HPR (pure product) with solvent in advance, for example, evenly dissolve HPR in isosorbitol, add formula at 45 ° C and stir evenly.

2、 Recommended for cream lotion and other emulsification systems and oil phase systems.

3、 Suggested formula with antioxidants, such as vitamin E.

4、 It is recommended that raw materials be used for the packaging of finished products, which is opaque and airtight.

5、 Recommended for use at night and in therapeutic applications.

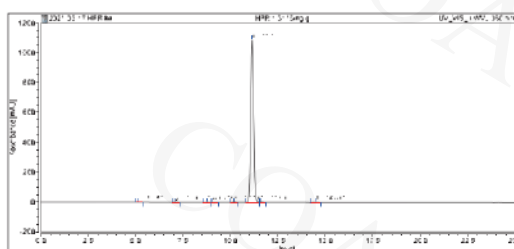
- Recommended Dosage: 0.05%-0.3% (pure product) ; 0.5%-3% (10%) .

Product Features

- Better stability
- Low irritation, milder, lower risk of adverse reactions
- It can directly bind with retinoic acid receptor, without conversion process, and takes effect quickly

Product Advantages

- Pureness(HPLC-DAD): >99%



- An invention patent of China (CN 202011432916.6)

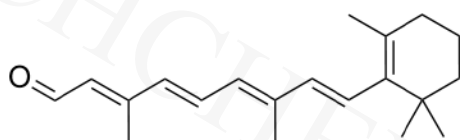
(19) 中华人民共和国国家知识产权局		
(12) 发明专利申请		
		(10) 申请公布号 CN 112822331 A (43) 申请公布日 2021.03.19
(21) 申请号 202011432916.6 (22) 申请日 2020.12.09 (71) 申请人 上海克琴科技有限公司 地址 201599 上海市金山区漕泾镇蒋庄村 2088号6幢4层 (72) 发明人 吴江 张伟 朱纯银 周宝萍 (74) 专利代理机构 上海精晟知识产权代理有限公司 31253 代理人 肖爱华 (51) Int. Cl. C12P 7/64(2006.01)		

Anallerg® -- Retinal

INCI name:RETINAL

Product Description

Retinal is an anti-wrinkle, anti-aging, anti-acne skin care active ingredient. Research shows that retinal is less irritating to skin than retinoic acid. In addition, retinoic acid, which is converted from retinal after human metabolism, also has the effect of treating acne, and can be said to be a multifunctional active additive. Retinal can be used in various anti-wrinkle, anti-aging and anti-acne skin care formulations. The pure retinal powder is sensitive to ultraviolet light and easy to oxidize, so it needs to be protected from light and sealed at low temperature.



CAS:116-31-4
N.W:284.44
M.F:C₂₀H₂₈O

Appearance	Yellow to orange crystal (pure) Yellow lotion (6% lotion)
Specifications	99% (pure product)、6% Lotion
Smell	Characteristic odor
Pureness(HPLC-DAD)	>99%
Solubility	Insoluble in water, soluble in some organic solvents (pure product)

Apply

- Efficacy: anti-wrinkle, anti-aging, anti-acne
- Formula Suggestion: When using anti-aging activity, retinal crystal can be directly added into cold oil phase (<60 °C) and fully dissolved before participating in heating or emulsification process.
- Recommended dosage: 0.05% - 0.2% (pure product), 1% - 3% (6% lotion)

Product features

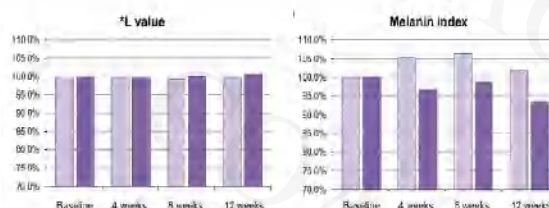
- Quick onset: directly convert into retinoic acid to play a role, and take effect quickly.
- Relatively unstable and difficult to formulate

Efficacy test

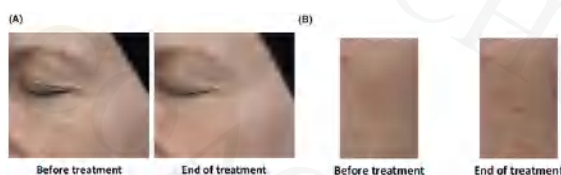
- Repair the loss of elastic fiber and collagen caused by ultraviolet



- Effectively inhibit epidermal melanin

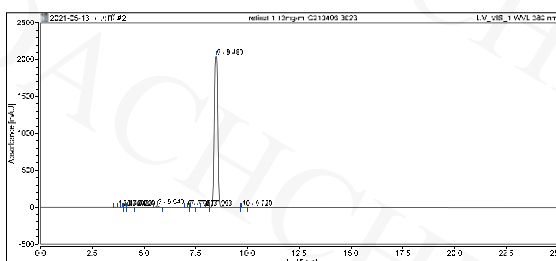


- Effectively improve skin photoaging symptoms



Product Advantages

- High Pureness(HPLC-DAD): >99%



- An invention patent of China (CN 201910803562.2)



COSMOS

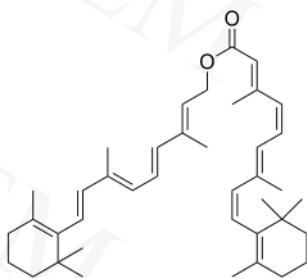
Anallerg® -- AAE

INCI name: RETINYL RETINOATE

Product Description

AAE, a derivative of vitamin A obtained by esterification of one molecule of retinol and one molecule of retinoic acid, will slowly decompose into retinoic acid after entering the skin. By promoting the renewal of keratinocytes and preventing the decomposition of collagen, the skin quality is improved and the pores are less obvious. It can also effectively reduce fine lines and wrinkles, smooth rough skin and improve skin texture. AAE can be used in various anti-wrinkle, anti-aging and anti-acne skin care formulations.

AAE vesicle is a yellowish to yellowish translucent and slightly viscous liquid with characteristic odor, which is composed of Retinyl retinoate, Tocopherol, Ppg-13-decyltetradeceth-24, Glycerin, Caprylic/capric triglyceride, Isopropyl lauroyl sarcosinate, Benzotriazolyl dodecyl p-cresol, Diethylhexyl syringylidenemalonate, Water.



CAS: 15498-86-9
N.W: 568.87
M.F: C₄₀H₅₆O₂

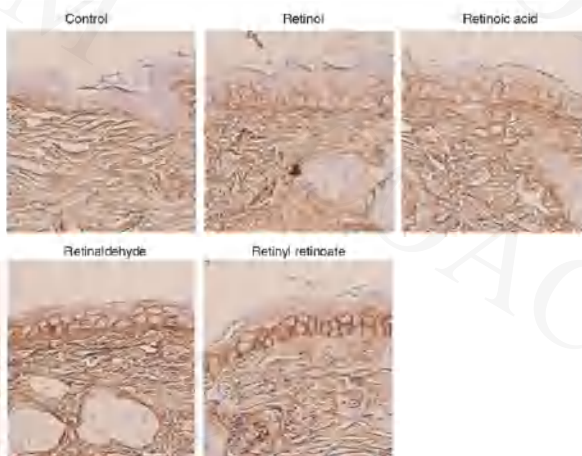
Appearance	Yellow to light yellow translucent slightly viscous liquid(3% AAE vesicles)
Specifications	3% AAE vesicles
Smell	Characteristic odor
Content	2.5%-3%
PH	PH value of AAE-3C (5% aqueous dispersion, 25 °C): 5.0-7.0

Apply

- Efficacy: anti-wrinkle, anti-aging, anti-acne
- Formula application: applicable to essence, cream, lotion and other systems.
- Formula suggestion: It is recommended to add it at low temperature below 37°C and stir it evenly (3% AAE vesicles). It is recommended that users use it at night or with sunscreen.
- Recommended dosage: 2.0 - 6.0% (3% AA ester vesicles)

Efficacy test

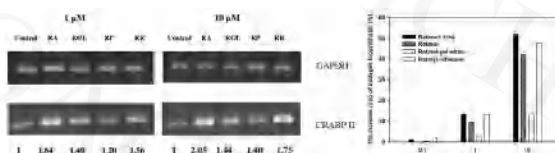
- Induce the synthesis of sodium hyaluronate with less irritation



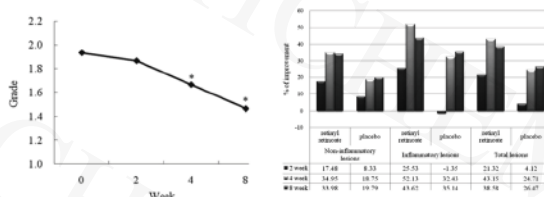
- Effectively improve eye wrinkles, with better effect than retinol, and no obvious side effects



- Promote collagen synthesis



- Propionibacterium acnes inhibition



Efficacy Summary

- Promote collagen synthesis and effectively improve wrinkles
- Thicken skin, accelerate metabolism, promote epidermal cell renewal, and make skin tender and smooth
- Promote the synthesis of sodium hyaluronate and increase the water retention capacity of the epidermis
- Inhibition of Propionibacterium Acne