



SpecPlex® Gloss Invention Patent application is being accepted

Lactobionic Acid, Carnosine, Nonapeptide-1, Tranexamic Acid, Mandelic Acid, Niacinamide

The six skin brightening ingredients cooperate with each other Adorned beauty convert into Natural Beauty

Features

- Natural Original Complex with NOI=80%
- · Safe and gentle to delicate skin, as well as to sensitive skin
- Soften skin surface and remove dead skin cells, smoothen sags and crests, normalize keratinization
- Boost the production of collagen (↑>400% @ 0.1%) and Glycosami noglycans (GAGs)
- · Strengthen the structural and biochemical support of Skin's extracellular matrix (ECM) and skin barrier

- · Plumping skin and increase skin elasticity
- Enhance your natural glow, cast Skin Highlighter and luster
- · Relieve skin stress, show anti-allergic property, make skin multi-active
- Even skin tone, leave skin healthy/natural-looking
- Prevent and fade dull and yellowish tone, inhibit melanin deposit
- · Nourish skin both externally and internally

SpecPlex® Gloss

Product code	110052		
INCI name	Lactobionic Acid, Carnosine, Nonapeptide-1, Tranexamic Acid, Mandelic Acid, Niacinamide, Glycerin, 1,2-Hexanediol &Ethylhexylglycerin, Aqua		
CAS No.	96-82-2, 305-84-0, 158563-45-2, 1197-18-8, 90-64-2, 98-92-0, 56-81-5, 6920-22-5 & 70445-33-9, 7732-18-5		
EC No. 202-538-3, 206-169-9,, 214-818-2, 202-007-6, 202-713-4, 200-289-5, 230-029-6 & 408-080-2, 231-			
Application Whitening/lightening, removing yellow, light spot, anti-aging (improve skin elasticity), antiglycosylation moisturizing and etc.			
Dosage	0.5-10.0%		
Storage	Store in a cool, ventilated place and keep container tightly sealed		
Shelf life	2 years		
Package	25kg		

Safety Test

No Skin irritation & Corrosion

No Heavy Metals (As, Cd, Hg, Pb)



Promoting effect of SpecPlex® Gloss on collagen content in fibroblasts (In vitro)

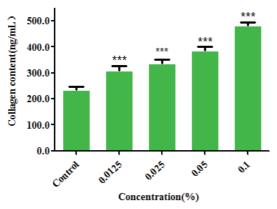
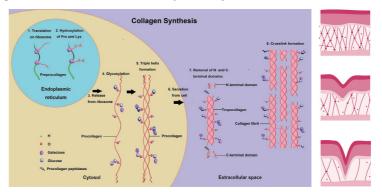


Fig.1 Cell collagen content in different groups (***P<0.001 vs. control cells)

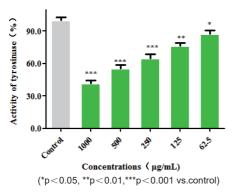


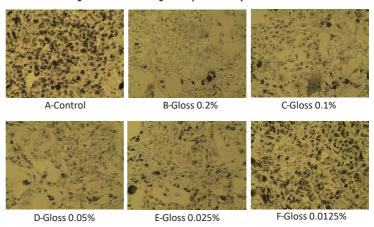
SpecPlex® Gloss promoted the collagen content in fibroblasts, and the promotion rate reached 105% when the concentration was 0.1%, and the promotion effect was concentration-dependent.

Inhibition effect of SpecPlex® Gloss on tyrosinase activity in melanocytes (In vitro)



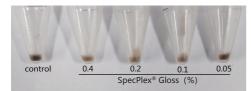
Tyrosinase activity in different groups



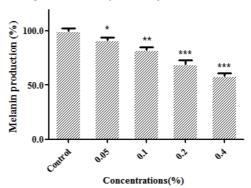


Dopa staining of melanocytes (A and B-F were the control group and SpecPlex® Gloss group (0.2%, 0.1%, 0.05%, 0.025% and 0.0125%, respectively). The larger and darker of the dark brown area, the higher the activity of tyrosinase in the cells .

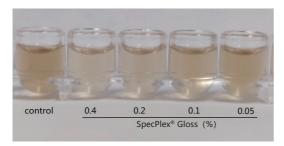
Inhibition effect of SpecPlex® Gloss on Melanin production (In vitro)



B16F10 melanocytes collected by centrifugation in different groups (the darker the color, the higher the melanin production)



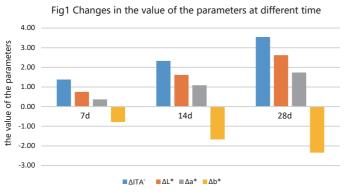
Inhibition effects of different concentrations of SpecPlex® Gloss on melanin production (*p<0.05, **p<0.01,***p<0.01 vs.control)

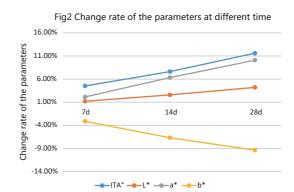


According to the results of cell tyrosinase activity test and cell dopa staining experiment, SpecPlex® Gloss can inhibite the activity of tyrosinase in melanocytes. The inhibition rate is 58.5% at 0.1% and IC50 is $633\mu g/mL$ ($\approx 0.0633\%$).

In addition, it also has a significant inhibitory effect on the production of melanin in B16F10 melanocytes, the inhibitory rate reached 41.4% when the concentration was 0.4%. The inhibition effect is concentration dependent.

Clinically Brightening Effect of SpecPlex® Gloss (Clinical)



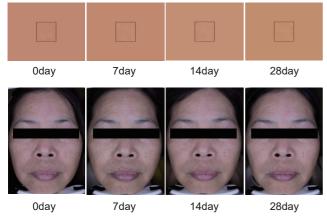


The three coordinates of CIELAB represent the lightness of the color ($L^* = 0$ yields black and $L^* = 100$ indicates diffuse white; specular white may be higher), its position between red and green (a^* , where negative values indicate green and positive values indicate red) and its position between yellow and blue (b^* ,where negative values indicate blue and positive values indicate yellow).

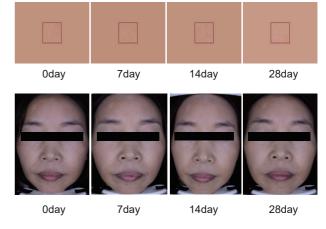
Summary

According to theory of Individual Typology Angle & CIELAB Color Space and above results, 5% SpecPlex® Gloss can leaves skin harmoniously and healthily pink-reflecting beauty with white, rather than limiting to a pure white skin color.

Skin Photos of Typical Testing Subject 1



Skin Photos of Typical Testing Subject 2





Brightening Cream SpecPlex® Gloss

	Product Name	INCI Name	w/w%	Function
Α	Cetearyl Olivate & Sorbitan Olivate		3.0	Emulsifier
	Cetyl Palmitate & Sorbitan Palmitate and Sorbitan Olivate		1.5	Emulsifier
	SpecSufc® M68	Cetearyl Glucoside &Cetearyl Alcohol	0.5	Emulsifier
	SpecKare® GTCC	Caprylic/capric Triglyceride	2.0	Emollient
	Isopropyl Myristate		1.0	Emollient
	Dicaprylyl Carbonate		3.0	Emollient
	Butyrospermum Parkii (Shea Butter)		1.0	Emollient
	SpecThem® C1618	Cetearyl Alcohol	2.0	Emollient
	SpecThem® GMS	Glyceryl Stearate	1.0	Emulsifier
	SpecKare® 3GF	Glyceryl Linoleate & Glyceryl Oleate & Glyceryl Linolenate	4.0	Humectant, Emollient
	Dimethicone		2.0	Tactile Enhancers
В	Disodium EDTA		0.1	Chelating Agent
	Water		To 100	
	Glycerin		5.0	Humectant
	Propylene Glycol		3.0	Humectant
	SpecPlex® Gloss	Lactobionic Acid, Mandelic Acid, Tranexamic Acid, Carnosine, Nonapeptide-1, Niacinamide, Glycerin, 1,2-Hexanediol &Ethylhexylglycerin, water	5.0	Whitening Agent
	SpecThem® XTG200	Xanthan gum	0.15	Stabilizer
	Sodium Hydroxide (20%)		q.s.	pH controlling Agent
С	Sodium Acrylate / Sodium Acryloyldimethyl Taurate Copolymer		0.6	Stabilizer
	Water		5	
D	SpecPlex® PCalm	Palmitoyl Tripeptide-8, Poria Cocos Sclerotium Extract, Portulaca Oleracea (PORTULACA OLERACEA) Extract, Glycerin, Aqua, Dipotassium Glycyrrhizate, Caprylyl Glycol & Ethylhexylglycerin	3.0	Relieve anti-allergic
	SpecKare® DPA	Panthenol	0.5	Humectant
Е	ParbFree® CE85	Caprylyl Glycol, Ethylhexylglycerin	1.0	Preservative

- 1. Mix Phase A and heat to 80 °C, stirring until completely dissolved;
- 2. Mix Phase B components and stir well;
- 3. Add Phase A into B, homogenize for 3-5min;
- 4. Disperse Phase C and cool the base below 60 C, then add Phase C to above sample;
- 5. Cool the base below 45°C, add Phase D, stirring until room temperature.

