



Product Optimized for Maximum Absorption

Dr. FiLL Brightening Liposome Glutathione 180

Pack Size	30 strips, 30 strips*3
Category	Other Processed Products (Food)
Functionality	Brighten and Revitalize Your Skin
Main Ingredient	Liposome Glutathione Yeast Extract (90% from India)
Subsidiary Ingredient	Milk Thistle, L-Cysteine, Selenium, Zinc, Magnesium, Vitamin C, Vitamin D, Vitamin E, Elastin, Collagen, Hyaluronic Acid
Shelf Life	36 months
Dosage Instruction	Place the film on your tongue and let it dissolve for optimal absorption
Flavor	Refreshing Lemon taste for a Pleasant Experience
Technology	With Dr.FiLL BIOSorbFilm®'s high-content loading technology, each film contains 180mg of pure glutathione, deliciously masked with taste-masking technology
Suggested For	<ul style="list-style-type: none"> Seeking a glutathione product designed for optimal absorption Wishing for a vibrant and healthy lifestyle Tired of makeup settling unevenly or feeling frustrated when looking in the mirror Looking to make skincare a daily habit Interested in transforming with a new inner beauty product





The Trending Glutathione, Now in a Film!

The skin secret of Hollywood stars

Beloved by celebrities like Beyoncé, Rihanna, and Nicki Minaj, glutathione has gained immense popularity

- 1,451,000 posts on social media
- 2,400,000 Google Scholar search results

(As of December 18, 2023)



Various Forms of Glutathione Products Available:

Tablets, Liquids, Capsules, Powders, and Films



A meticulously formulated glutathione film, carefully reviewed for origin, purity, and content to maximize synergy.

Ranked No.1 in domestic production, with over 90% of film-type glutathione manufactured through consignment in South Korea.



Holds the leading manufacturing technology for the highest pure glutathione content in film form

Designed for easy and convenient consumption, featuring:

- High-Content Delivery Technology for maximum glutathione content
- Flavor-Masking Technology for a pleasant taste
- Precise Dosage Control for accurate formulation

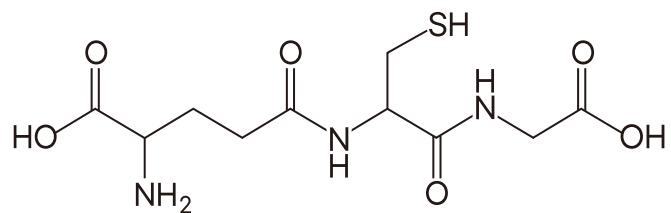


Quality assured with patented Dr.FiLL BIOSorbFilm® technology

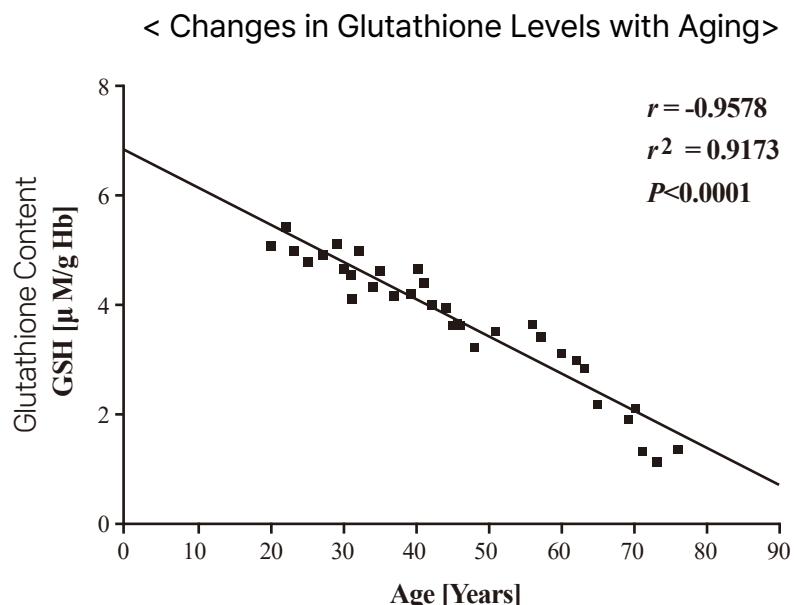


Glutathione

- Composed of three amino acids: Glutamic Acid, Cysteine, and Glycine
- Found in the liver and other tissues, playing a key role in detoxification, skin brightening, and redox enzyme activity as a powerful antioxidant
- Naturally decreases in the body over time and with aging



< Glutathione >



Rejuvenation Research (2013) VOL. 16, NO. 3 179-184

Functions of Glutathione

1. A Representative Antioxidant

- Over 90% of the causes of aging are due to reactive oxygen species (ROS)!
- Glutathione produces peroxidase enzymes that protect almost all cells from ROS
- To maximize the activity of peroxidase enzymes, selenium and the biosynthesis mechanisms of glutathione, along with Vitamin C and Vitamin E, are crucial

(*Nutrients* 2019;11:2073)



Glutathione reduces the oxidized iodine components, causing the color to change to transparent (C.L.Pharm in-house experiment, conditions: 400mg water, 2g povidone, water temperature 50°C, experiment completed within 1 minute)

2. Skin Brightening

- Glutathione inhibits the production of melanin, reducing the melanin index.
- In a 4-week oral glutathione supplementation trial with 60 participants, skin color lightened, and skin tone became more even and uniform

(*Journal of Dermatological Treatment*, 2012;23:97-102)

< Changes in Melanin Index >

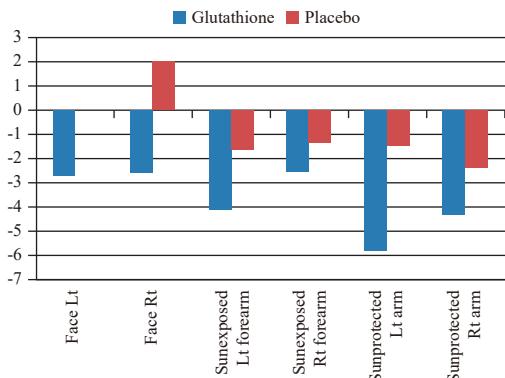


Figure 1. Changes in melanin indices (negative numbers denote decrease in melanin indices).

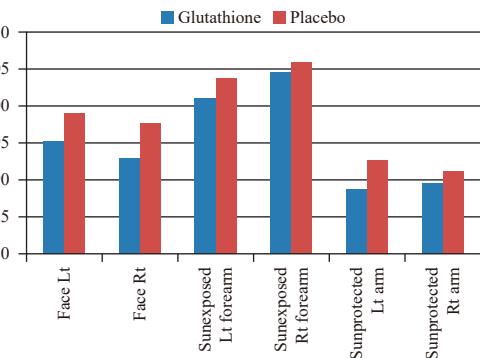


Figure 4. Comparison of melanin indices at the end of the study with baseline values adjusted using ANCOVA.

Glutathione Absorption Through Oral Mucosa

1. Oral Mucosa Absorption is More Effective

Clinical, Cosmetic and Investigational Dermatology 2022:15

Open Access Full Text Article

REVIEW

Augmented Glutathione Absorption from Oral Mucosa and its Effect on Skin Pigmentation: A Clinical Review

can be absorbed, enter the systemic circulation directly by passive transport.^{50,51,52} Compared to oral administration, whereby under 10% actually enters the blood stream,⁵² orobuccal administration leads to over 80% absorption directly into the systemic circulation.⁵¹ It is thereby safe to say on the basis of published data, that absorption from the orobuccal

Compared to oral administration, where less than 10% actually enters the bloodstream, more than 80% is directly absorbed into the systemic circulation through the mucous membrane around the mouth.

As has been discussed, glutathione is rapidly absorbed by the orobuccal route and reaches high enough levels in the blood to be therapeutically efficacious. Studies comparing gastrointestinal versus orobuccal absorption have demonstrated that the latter is far superior in that glutathione enters the circulation directly and rapidly reaches high levels.^{7,9,33,39} Therapeutic value of this route, although known for some time, needs further evaluation. Some recent studies have made a beginning in this direction.^{7,9,31} However, the rate of absorption per square centimeter and the evaluation of oral

Glutathione is rapidly absorbed through the oral route and reaches sufficiently high levels in the blood to be therapeutically effective. Studies comparing gastrointestinal absorption and oral absorption have demonstrated that oral absorption, through the oral mucosa, is far superior as glutathione directly enters the circulatory system and quickly reaches high levels.

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2. High Absorption of Dissolvable Products: A 121% increase compared to pre-consumption

(Oxid Med Cell Longev. 2016;2016:3286365)

- In vitro test (Table 2): Glutathione is absorbed 55% after 10 minutes, 67% after 20 minutes, and 70% after 30 minutes.
- Clinical test (Table 4*): Glutathione absorption through the oral mucosa increases by 121% compared to before intake 30 minutes after consumption.

*15 healthy volunteers (both male and female), aged 20–40, with an average weight of 60±5 kg, of European descent. After consuming 1,100mg dissolvable tablet (GSH 250mg, L-Cystine 50mg, Vitamin C 40mg, Selenium 55mcg), blood samples were collected at 30 and 60 minutes.

Table 2
GSH absorption.

	GSH (mg)	GSH (%)			
Applied amount	0.125				
	Mean value	SD	Partial absorption	Total absorption	SD
T10 (medium)	0.069	0.002	55.04%	55.04%	1.9%
T20 (medium)	0.015	0.0008	12.32%	67.36%	0.63%
T30 (medium)	0.003	0.0002	2.56%	69.92%	0.14%
Tissue	0.001	0.0001	1%	1%	0.17%
Total absorption	0.088	0.0031	70.92%	70.92%	0.17%

Table 4
GSH level.

	Absorption times		
	Basal		
	(nmol/g Hb)	T30	T60
Mean	7358	8502	8913
SD	1590	1303	1309
p value		0.014 (*)	

In vivo data obtained from the GSH dosage in total blood are reported.