

THIO-C

A Product of
Surgeway Biosciences



About Surgeway Biosciences

- ▶ SurgeWay Biosciences is a pharma export house with an increasing presence in international markets.
- ▶ SurgeWay is part of a larger group, which has been into the Pharmaceutical Industry for the past **36 years/since 1984.**

Our Niche Product Portfolio

- Unique Food Supplements
- Patented Herbal Products
- US-FDA Medical Devices
- Specialized Drugs



Manufacturing Facility - Inspected And Approved By:

 FSMS-USA

 WHO-GMP

 HACCP

 ISO 9001:2008



THIO-C

- ▶ **THIO-C** is a Cosmetic formulation which restores **skin luminosity** and improves **skin condition**
- ▶ **THIO-C** is a unique blend of L-Glutathione (a master anti-oxidant) and Vitamin C, which are required by the skin for natural rejuvenation and revitalization
- ▶ This advanced skin formula, consists of skin-brightening and antioxidant components. These effectively helps the skin fight against the photo-biological damages, and other skin damages caused due to harmful chemicals

THIO-C

- ▶ Brightens Skin Complexion
- ▶ Delays Signs of Ageing

- ▶ Reduces Hyper-pigmentation
- ▶ Evens Skin Tone



*"You are already beautiful.
We just add **MORE** before **beautiful**"*

What makes THIO-C special compared to other cosmeceutical products for skin beauty

- ▶ Most topical cosmeceutical products don't suit dry skin, unless mixed with a hydrating day cream
- ▶ Topical gels cannot be applied on the skin surface that is cut or scraped
- ▶ Fat-based ointments (protective ointments) reduce the ability to grip
- ▶ Ointments cause pseudo occlusion (congestion of moisture)
- ▶ **THIO-C** is paraben free and has no added fragrance, therefore completely natural
- ▶ **Advantage vis-a-vis Intravenous Glutathione-** I.V has been banned in a lot of countries, as it deemed it to be unsafe and may result in serious consequences to the health of the users.

THIO-C is an oral formulation, which is safe & has no known side-effects



*"You are already handsome.
We just add **MORE** before handsome"*

Some interesting Facts about THIO-C

- ✦ Works for both men and women
- ✦ Glutathione, which is a natural antioxidant present in the body, is actually a compound (**GSH**) that is highly beneficial for biological processes and functions. Delivering **GSH** directly to the cells is the fastest, safest and proven effective way to decrease melanin production and increase whitening effects
- ✦ L-Glutathione(Trade Name - SETRIA) used in **THIO-C** is imported from **Kyowa Hakko.,JAPAN**
- ✦ **THIO-C** uses Reduced glutathione, which is the active form. It donates electrons to free radicals or molecules with unpaired electrons. The addition of donated electrons neutralizes the free radicals, and prevents them from causing cellular damage



"We will keep your age a secret"



KYOWA HAKKO BIO CO., LTD.

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Hofu Plant: 1-1, Kyowa-cho, Hofu-shi, Yamaguchi, 7478522, Japan

CERTIFICATE OF ANALYSIS

Commodity : SETRIA (L-GLUTATHIONE REDUCED)
Lot No. : 180067
Manufacturing date : FEB. 07. 2019
Analysis date : FEB. 07. 2019
Retest date : FEB. 07. 2022

SPECIFICATION [METHOD]	ACCEPTANCE CRITERIA	RESULT
APPEARANCE [VISUAL OBSERVATION]	WHITE CRYSTALLINE POWDER	WHITE CRYSTALLINE POWDER
IDENTIFICATION [IR]	PASS TEST	PASS TEST
SPECIFIC ROTATION(AT 20°C) [JP]	-17.5 to -15.5 °	-17.0 °
STATE OF SOLUTION(T%) [KYOWA]	NOT LESS THAN 98.0 %	NOT LESS THAN 98.0 %
CHLORIDE(C1) [EP]	NOT MORE THAN 0.020 %	NOT MORE THAN 0.020 %
SULFATE(SO4) [JP]	NOT MORE THAN 0.030 %	NOT MORE THAN 0.030 %
AMMONIUM(NH4) [KYOWA]	NOT MORE THAN 0.020 %	NOT MORE THAN 0.002 %
HEAVY METALS(Pb) [JP]	NOT MORE THAN 10 ppm	NOT MORE THAN 10 ppm
ARSENIC(As2O3) [JP]	NOT MORE THAN 1 ppm	NOT MORE THAN 1 ppm
IRON(Fe) [JP]	NOT MORE THAN 10 ppm	NOT MORE THAN 10 ppm
INDIVIDUAL IMPURITY [JP]	NOT MORE THAN 1.5 %	NOT MORE THAN 1.5 %
TOTAL IMPURITIES [JP]	NOT MORE THAN 2.0 %	NOT MORE THAN 2.0 %
LOSS ON DRYING [JP]	NOT MORE THAN 0.50 %	0.10 %
RESIDUE ON IGNITION [JP]	NOT MORE THAN 0.10 %	0.03 %
TOTAL PLATE COUNT [JP]	NOT MORE THAN 1000 CFU/g	NOT MORE THAN 1000 CFU/g
FUNGI COUNT [JP]	NOT MORE THAN 100 CFU/g	NOT MORE THAN 100 CFU/g
E. COLI [JP]	NEGATIVE/g	NEGATIVE/g
ASSAY(DRY BASIS) [JP]	98.0 to 101.0 %	98.7 %

Not for API use.

SETRIA is Kyowa's trade name for L-Glutathione reduced. This specification meets the quality requirements of the current JP and USP(DS*) product monographs. *Dietary Supplements

This product meets the current residual solvents requirement as per USP and EP. No animal origin raw materials/additives are used throughout the manufacturing process. Made in Japan.

The undersigned affirms that contents mentioned above are truly reported in accordance with the analysis by Quality Control Center.

KYOWA HAKKO BIO CO.,LTD.

M. Kino

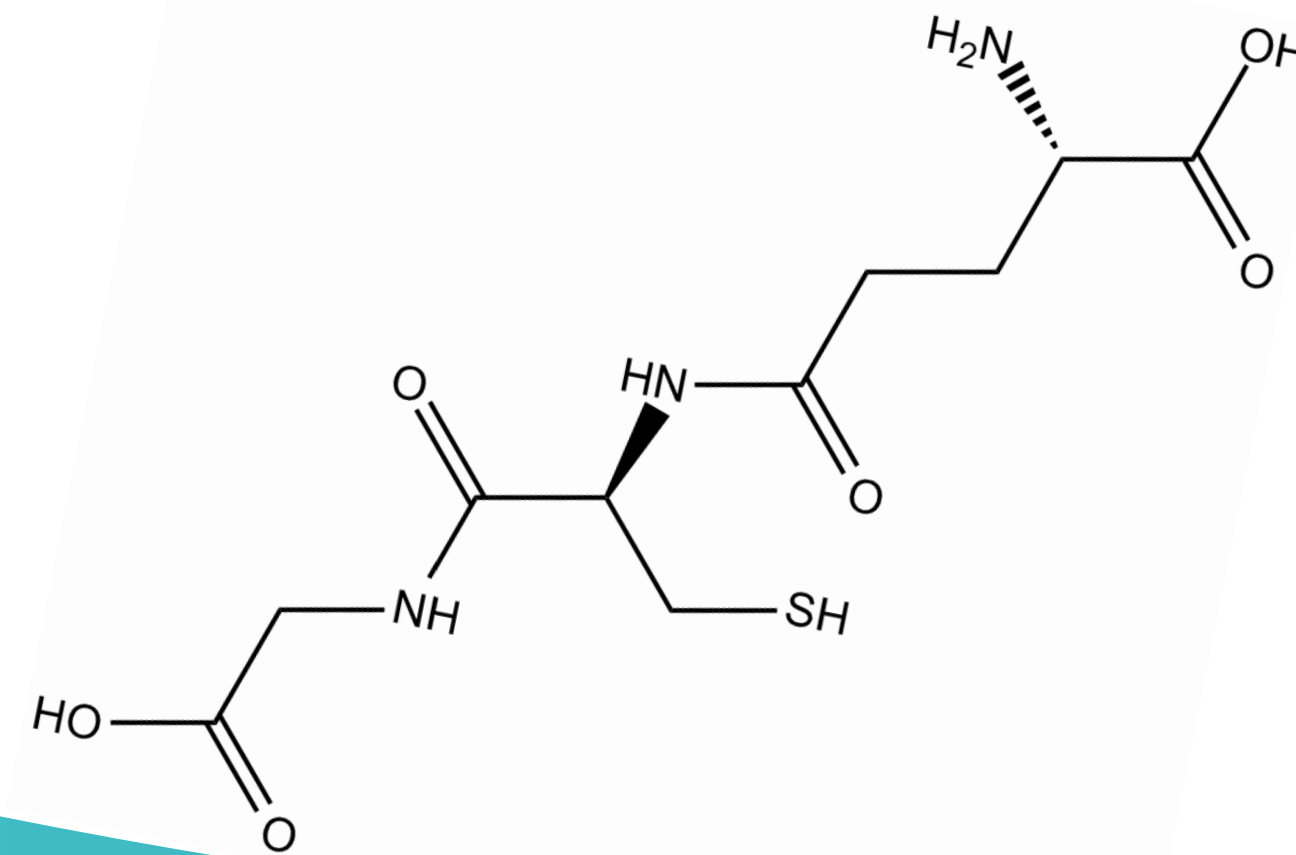
Mitsutaka Kino
Manager of Quality Assurance Center
Manufacturer

Date of issue : APR. 08. 2019
(D722095)
00029

Composition of THIO-C

L-Glutathione (Reduced) 500 mg

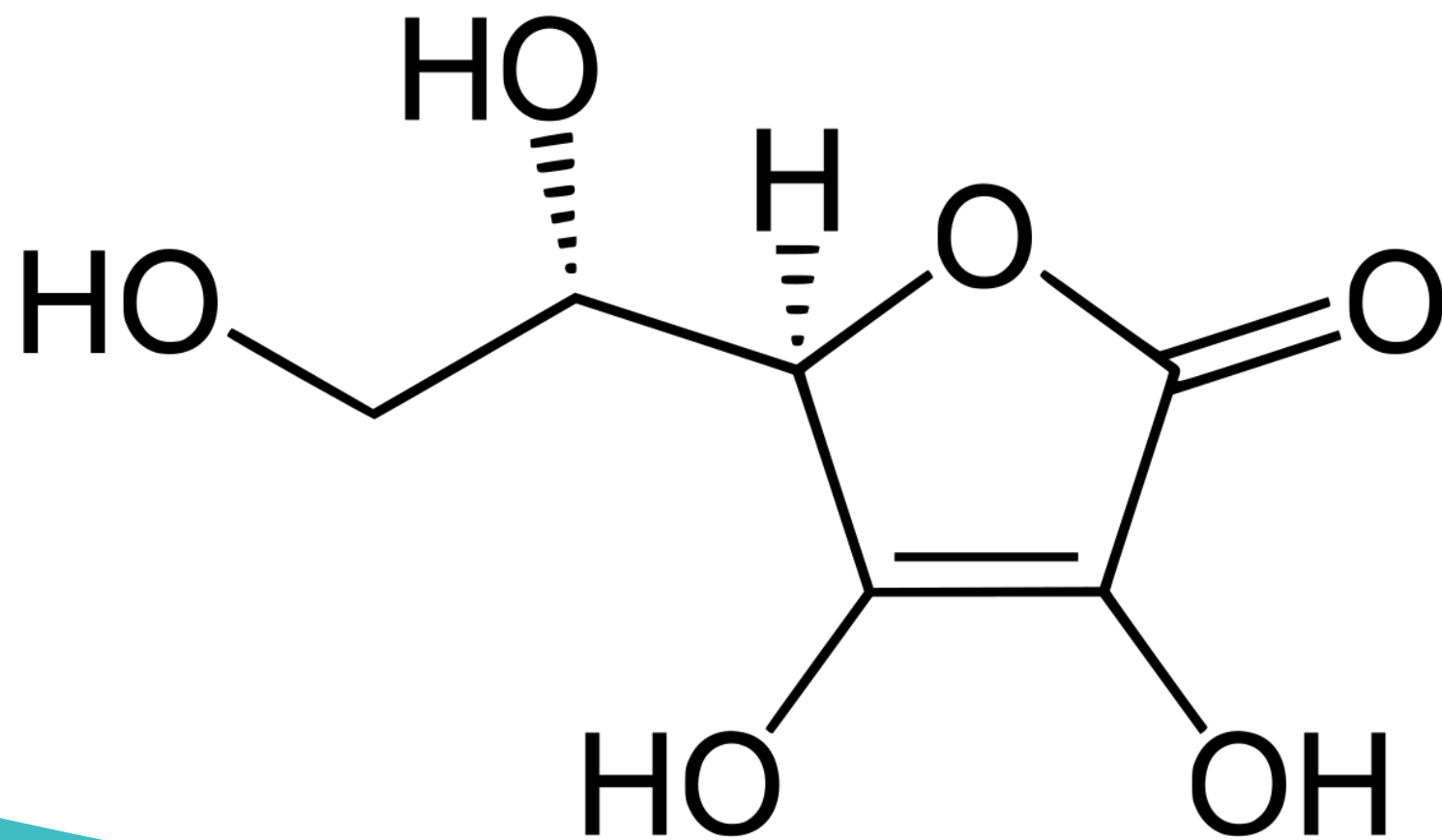
- ▶ Glutathione acts as a **Tyrosinase Inhibitor**. Tyrosinase is an enzyme that catalyzes the biosynthesis of melanin which is the culprit for skin darkening
- ▶ Glutathione is the body's most powerful antioxidant. It detoxifies our cells, removing heavy metals, toxins, and free radicals
- ▶ Age spots can be minimized and prevented by enhancing the glutathione levels in the body



Composition of THIO-C

Vitamin C 500 mg

- ▶ Vitamin C protects our skin from free radicals that develop due to excess exposure to the sun and environmental pollution.
- ▶ Vitamin C not only reduces sunburns, but also prevents the consequences of long term sun exposure that can lead to skin cancer.
- ▶ It helps to boost collagen production, which helps to hold the skin together, making it tighter and brighter.





Therapies with THIO-C

FOR PRESCRIPTION GENERATION

1. Hyper Pigmentation
2. Skin Nourishment
3. Premature Skin Ageing
4. Dermatochalasis
5. Xeroderma cutis
6. Collagen degeneration
7. Melasma
8. Wrinkles and Fine Lines
9. Sunspots & Sunburns



***"Your innocence
will be maintained"***



Therapies with THIO-C

FOR OTC PROMOTION

- ▶ **SKIN LIGHTENING (REDUCED MELANIN PRODUCTION): THIO-C** is helpful in reducing melanin synthesis and thereby prevents various pigmentation issues such as melasma, freckles and dark spots. **(Needs to be promoted as a fairness product – which brightens the skin, evens skin tone and reduces signs of ageing)**
- ▶ **SAFE AND EFFECTIVE** over topicals: **L-Glutathione** is a master **anti-oxidant** which improves protein, enzyme, and bilirubin levels in the blood.

A GOOD SIDE EFFECT IS SKIN LIGHTENING



***"We will improve
your antioxidant balance"***

Frequently Asked Questions

Which age group can use THIO-C?

Anyone above 20 can use THIO-C.

How does THIO-C help in natural glowing of skin?

It works for both men and women. Glutathione and vitamin C, which are the key ingredients of this product, improves your skin's texture and tone and gives it a healthy and natural glow. It improves the brightness of your skin increasing your skin's hydration capacity and triggering collagen synthesis.

What is the recommended dosage of THIO-C?

The recommended dosage is 1 tablet per day to be taken preferably 30 minutes in the morning, before or after meal.



"We will remove those stress wrinkles"

How long before I can see the result?

Taking THIO-C continuously for 2-3 weeks may result in a decrease on melanin index (skin whitening). Maximum results would be seen if THIO-C is taken regularly for 2 – 3 months.

Should I stop taking THIO-C once I achieved my desired skin tone?

Once you have achieved the desired skin color, you can still continue using THIO-C, as it is proven to be effective not only as skin whitening, but also a master anti-oxidant and assisting in collagen formation.

Are there any side effects in using THIO-C for long term?

There are no side effects or adverse reactions in using **THIO-C** in long term, if taken 1 tablet per day .



What is the difference between Plain Glutathione and L-Glutathione?

The other name of Glutathione is L-Glutathione. **There is no difference between the two.** Glutathione is classified into two different forms- Reduced glutathione (**GSH**) and oxidized glutathione (**GSSG**).

L-Glutathione (reduced) is a **more processed form of glutathione** that has been saturated with an additional sulfur molecule. This creates a more powerful anti-oxidant in the body that helps build strong cells because of the rehabilitation that the L-glutathione molecule can perform on the cell walls.

How can we compare actions of Glutathione (oxidized) and L- Glutathione?

There are two different forms of glutathione: reduced glutathione (**GSH, or L-glutathione**), which is the active form, and oxidized glutathione (**GSSG**), the inactive form.

Glutathione is the master antioxidant in the body and is heavily concentrated in tissues such as the liver, spleen and heart. As **GSH** (or L-glutathione) patrols the cellular environment and puts out oxidative "free radical" fires, it becomes oxidized itself and inactive, thus turning into **GSSG**. **Thio-C** formulation is preformed, reduced glutathione (GSH) and provides a 500 mg dose in a one-tablet serving.



Do we have any comparative study indicating that L-Glutathione scores over plain Glutathione ?

Reduced glutathione (GSH) has a skin-whitening effect in humans through its tyrosinase inhibitory activity. Please go through this link for more details-
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5413479/>

On bottle you mentioned L- Glutathione but on second page of LBL its only Glutathione? Any specific reason behind this?

Since both are same, so we have mentioned only “Glutathione” on the second page of LBL.

Which are the Direct and indirect competitors available?

Glutathione is the best known skin whitening product available in the market.

The top skin whitening brands have glutathione in them as one of the active ingredients. Vitamin Injections (though lacking any demonstrable efficacy) and herbal/ayurvedic preparations may be the **indirect competitors** for **Thio-C**. Certain other supplements may boost your body’s production of glutathione such as- Curcumin, N-acetylcysteine, Selenium, Silymarin, Vitamin C and Vitamin E.



What are the other option available with Doctors other than L-Glutathione and How Thio-C scores over others?

This is the reply from **Dr. Manoj Agarwala, dermatologist** (available on Practo)-

“Outdoor activities make our skin tan. The only option is to wear protective full sleeves clothing, cap or a hat, to carry an umbrella and sunglasses. Skin already tanned can be treated with depigmenting creams. People usually don't use sunscreens as they may be greasy or make your face appear white”



Advantages of Thio-C over others :

- ▶ **SKIN LIGHTENING (REDUCED MELANIN PRODUCTION): THIO-C** is helpful in reducing melanin synthesis and thereby prevents various pigmentation issues such as melasma, freckles and dark spots.
- ▶ **SAFE AND EFFECTIVE over topicals: L-Glutathione** is a master **anti-oxidant** which improves protein, enzyme, and bilirubin levels in the blood. **A GOOD SIDE EFFECT IS SKIN LIGHTENING**
- ▶ Bleaching creams, though popular for decades, come with a host of dangers, including chemical burns and mercury poisoning. Glutathione is promoted as a safe alternative.



What is the duration of treatment of Thio-C to get desired results?

- ▶ **As an anti-oxidant/ anti-aging medication:** Glutathione's recommended dosage is between 10 and 20mg. per Kg. BW (body weight) per day divided into two doses.
- ▶ **As a whitening medication:** Glutathione's recommended dosage is between 20 and 40mg. per Kg. BW (body weight) per day divided into two doses.
- ▶ **DURATION OF INTAKE FOR SKIN WHITENING:**
 - > medium brown: 1-3 months > dark brown skin: 3-6 months
 - > very dark skin: 6-12 months > black skin: at least 2 years or even more
- ▶ Once a person has achieved his/her desired skin color, the maintenance dose will just be 500mg once a day.

Thio-C also contains Vitamin C to keep L Glutathione in its absorbable or reduced form. This will release the potential of Vitamin C's derivatives whitening properties.



► **Clinical trials available for Glutathione?**

> **An article was published in Indian Journal of Dermatology, Venereology and Leprology in the year 2016.**

Summary of the role of glutathione as a skin-lightening agent

While there is no published data for intravenous glutathione, the results of the three randomized controlled trials mentioned above have provided grade 1b and 2b evidence in favour of the skin-lightening effects of topical and oral glutathione, with no significant adverse effects. However, larger and long-term studies are warranted to generate more evidence.

Link- <http://www.ijdvl.com/article.asp?issn=0378-6323;year=2016;volume=82;issue=3;spage=262;epage=272;aualast=Sonthalia>



Which are the international brands available through out the globe?

5 best Glutathione Brands- October, 2019 are:

- ▶ Jarrow Formulas Reduced Glutathione
- ▶ NOW Glutathione 500 mg
- ▶ NO-TASTE: Optimized L-Glutathione Softgels 500 mg
- ▶ NOW Glutathione 250 mg
- ▶ Amazon Brand- Amazon Elements Glutathione 500 mg





THANK YOU FOR YOUR TIME!
For more Information:

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