Bistach Tablets
Glutathione (Reduced) 50mg

Genesis Pharm in Republic of Korea
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I. Bistach Tablets

1. Information of Bistach tablets (1)

<table>
<thead>
<tr>
<th>Name of product</th>
<th>Bistach tablets 300t /non-prescription medicine.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of separation</td>
<td>No.392</td>
</tr>
<tr>
<td>Name of component</td>
<td>Glutathione(Reduction type) 50 mg / 1 Tab.</td>
</tr>
<tr>
<td>Effects</td>
<td>Antioxidant.</td>
</tr>
<tr>
<td>Directions and Capacity</td>
<td>Adult, as a glutathione take 50~100mg per one time, once ~ three times per day. Increase appropriately depend on the age and symptoms.</td>
</tr>
</tbody>
</table>
I. Bistach Tablets

1. Information of Bistach tablets (2)

• Expiration date of Bistach Tab.: 3 years.

• Advantages:
  1. As a non-prescription medicine it is possible to get prescribe and sell in the hospital
  2. Possible to store at room temperature
  3. No side effects
  4. Easy to take this medicine as a small pill
  5. Not be broken in low temperatures

• Benefits:
  ① Skin whitening
  ② Strengthens immune system
  ③ Detoxifies the liver & cells
  ④ Powerful antioxidant
I. Bistach Tablets

2. What is Glutathione (Bistach tablets)?

- It was founded by De Rey Pailhade in 1888. But it did not receive attention.
- It had been reevaluated as powerful antioxidant in the WHO in 1975.
- Recently, it has been recognized for excellence in cosmetic effect (skin-whitening).
- Glutathion is an abbreviation of peroxides or glutathione sulphydryl.
- Glutathion is a tri-peptide made of three elements together (Glutamate, Glycine, Cystaine) as a very small protein peptides.

References:
1. http://guweb2.gonzaga.edu/faculty/cronk/biochem/G-index.cfm?definition=glutathione
COMPOSITION AND SYNTHESIS OF
GLUTATHIONE

Immunocal

Gut

Cell

Cystine

Glycine

Glutamate

GLUTATHIONE (tripeptide)

Cystine

Glycine

Glutamate

GLUTATHIONE (tripeptide)

^ 2 molecules of cysteine linked together

Carried in blood to cells as cystine, glutamylcystine


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3. Features of Bistach tablets:

① Sole medicine as a drugs that have a whitening function.
② Sole medicine as a oral medicine of glutathione.
③ It has been recognized for excellence in powerful antioxidant.
④ It has passed the FDA (Food and Drug Administration of Republic Korea) testing for safety and effectiveness.
II. Functions of Bistach tablets

- Skin-whitening
- Antioxidant
- Obesity
- Chronic Fatigue Syndrome
- Detoxifier
- Immune Booster
- Improvement Liver Function
Glutathione shows various physiological activities. For example, it inhibits melanin pigment formation. Thus it may be used for skin whitening and skin-improving effects.¹

Before & After taking Bistach Tab.

Before taking Bistach Tab.

after 1 week

after 2 weeks

after 3 weeks

after 4 weeks

Effect of skin whitening
Video of Glutathione’s Function

GLUTATHIONE GSH: Glutathione skin whitening and anti-oxidant properties

https://www.youtube.com/watch?v=v94YcRX8-VQ
Result of evaluating, melanin levels of evaluation points are reduced after taking 500mg per day in 4 weeks.

Target of Bistach tablets for Skin Whitening Treatment

- Dermatology
- Beauty Clinic
- Plastic Surgery
- Internal medicine
- Family medicine
Glutathione is the best antioxidant says all the hype!

Oh Really?

But WHY exactly is glutathione the King of all Antioxidants?

Antioxidants protect the body from free radicals. Free radicals are like little fires and antioxidants are the ones who “put out” the fires. If free radicals are not neutralized by antioxidants, they can cause damage to our cells, body tissues and organs that will eventually lead to disease, poor health, and rapid aging.
③ Improvement Liver Function

*Effect of liver cirrhosis and age on the glutathione concentration in the plasma, erythrocytes, and gastric mucosa of man.*

![Graph showing glutathione content in plasma and erythrocytes](graph.png)

Glutathione content in the plasma (A) and erythrocytes (B) in control subjects (■) and cirrhotic patients (■).

Immune Booster (1)

The immune system works well if the lymphoid cells have a delicately balanced intermediate level of glutathione.¹

<table>
<thead>
<tr>
<th>Type</th>
<th>Cys2</th>
<th>Gln</th>
<th>Glu</th>
<th>Urea production</th>
<th>Immune function</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIV infection, late asymptomatic</td>
<td>↓ ↓</td>
<td>↓ ↓</td>
<td>↑</td>
<td>↑ ↑</td>
<td>↓ ↓ NK etc.</td>
</tr>
<tr>
<td>Sepsis, major injury and trauma</td>
<td>↓ ↓</td>
<td>↓ ↓</td>
<td>↑</td>
<td>↑ ↑</td>
<td>↓ ↓ NK etc.</td>
</tr>
<tr>
<td>Crohn's disease</td>
<td>↓ ↓</td>
<td>↓</td>
<td>↑</td>
<td>↑ ↑</td>
<td>↓ ↓ NK etc.</td>
</tr>
<tr>
<td>Ulcerative colitis</td>
<td>↓ ↓</td>
<td>↓</td>
<td>↑</td>
<td>↑ ↑</td>
<td>↓ ↓ NK etc.</td>
</tr>
<tr>
<td>Overtraining</td>
<td>nd</td>
<td>↓ ↓</td>
<td>↑</td>
<td>↑ ↑</td>
<td>↓ ↓ NK etc.</td>
</tr>
<tr>
<td>Chronic fatigue syndrome</td>
<td>↓ ↓</td>
<td>↓ ↓</td>
<td>nd</td>
<td>nd</td>
<td>↓ ↓ Immunological deficiency Ol</td>
</tr>
<tr>
<td>Starvation</td>
<td>↓ ↓</td>
<td>nd</td>
<td>nd</td>
<td>↑ ↑</td>
<td></td>
</tr>
</tbody>
</table>

Glu, glutamate; nd, Not determined or not detected; NK, Natural killer; Ol, opportunistic infections; ↓, decrease; ↑, increase.*Cystine levels are inversely correlated with urea production. +NK cell activity, or other immunological variables, including CD4+:CD8+T-cell values.

Altered glutathione concentrations may play an important role in many autoimmune pathological conditions prevalently elicited, detrimed and maintained by inflammatory/immune response mediated by oxidative stress reactions.¹

Target of Bistach tablets for Immune Booster, Improvement Liver Function and Antioxidant

- General surgery
- Neurosurgery
- Orthopedics
- Plastic surgery
- Cardiothoracic surgery
- Family physician
- Division of gastroenterology
What is glutathione?

Short answer: The body’s chief detoxifier.

“Glutathione is the major antioxidant present in cells and is responsible for detoxification and elimination of environmental toxins. Its active form is reduced 80% in kids with autism.”

~Dr. S_ Jill James, PhD
Arkansas Childrens Research Institute
Detoxifier

Phase I and II Liver Detoxification


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Impaired methylation and reduced levels of glutathione put children with ASD at
greater risk from environmental toxicity from substances like heavy metals, pesticides,
PCBs and other harmful chemicals.

“This pattern is consistent with an inability to detoxify poisons, especially heavy metals
such as mercury or lead. That is because glutathione normally binds to heavy metals
and allows the body to detoxify them”.

~ Dr. S. Jill James, PhD

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Target of Bistach tablets for Detoxification

- Cancer center
- Dermatology
- Otolaryngology
- Family medicine
- Surgery department
- Hemato-oncology
Chronic Fatigue Syndrome

**CDC (centers for Disease Control and Prevention) Guideline**

Of the following symptoms, more than 4 kinds of symptoms last for 6 months.¹

- Hypomnesia or Busy brain
- Throat discomfort
- Axillary lymph pain
- Muscle pain
- Headache
- Multiple arthragia
- Not feel refreshed after sleep
- Ennui after exercise or ennui

¹ Reference: www.cdc.gov.
Chronic Fatigue Syndrome = Lack of glutathione
Target of Bistach tablets for Chronic Fatigue Syndrome

- Family physician
- General internal medicine
Obesity

The quantity of glutathione increased, the weight decreases.

<table>
<thead>
<tr>
<th></th>
<th>Before</th>
<th>After</th>
<th>P value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (kg)</td>
<td>102.1±18.7</td>
<td>82.5±14.8</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Body mass index (kg/m²)</td>
<td>38.5±7</td>
<td>30.9±5.7</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Waist hip ratio</td>
<td>0.9±0.06</td>
<td>0.8</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Waist circumference (cm)</td>
<td>108.5±10.6</td>
<td>94.1±9.4</td>
<td>&lt;0.028</td>
</tr>
<tr>
<td>% Fat mass</td>
<td>42.5±8.1</td>
<td>34.7±7.3</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>% Free fat mass</td>
<td>57.9±8.2</td>
<td>64.6±6.9</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Insulin (IU/ml)</td>
<td>41±30</td>
<td>26.9±18.3</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Cholesterol (mg/dl)</td>
<td>209.5±43.7</td>
<td>169.7±27.2</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Triglycerides (mg/dl)</td>
<td>141.5±42.9</td>
<td>125±40</td>
<td>&lt;0.002</td>
</tr>
<tr>
<td>HDL (mg/dl)</td>
<td>42.1±10.3</td>
<td>33.9±8.2</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>LDL (mg/dl)</td>
<td>131.2±43.9</td>
<td>116.9±28.5</td>
<td>0.688</td>
</tr>
<tr>
<td>IL-6 (pg/ml)</td>
<td>83±17</td>
<td>11.7±3.1</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>CRP (mg/l)</td>
<td>8.5±3.9</td>
<td>6.6±3.3</td>
<td>&lt;0.007</td>
</tr>
<tr>
<td>HOMA-IR</td>
<td>10.1±8.2</td>
<td>6.5±4.6</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Isoprostane (pg/ml)</td>
<td>5166.4±1787.2</td>
<td>1472.2±506.4</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Glutathione peroxidase (ng/ml)</td>
<td>22.3±9.5</td>
<td>48.9±14.1</td>
<td>&lt;0.001</td>
</tr>
</tbody>
</table>

Weight loss is related to reduction of oxidative stress and inflammation; this beneficial effect could possibly be translated into reduction of cardiovascular risk in obese individuals. 

Glutathione inhabits the accumulation of visceral fat by detoxifying the liver in entero-hepatic circulation.
Target of Bistach tablets for obesity

- Obesity Clinic
- Family physician
- Dermatology
- Plastic surgery
- Internal medicine
III. Absorption of Bistach Tab. (Reduced)

Glutathione levels with low (250mg) and high (1,000mg) capacity increase similarly in the blood at 1, 3, 6 months comparison with baseline. ¹

¹ Reference: Randomized controlled trial of oral supplementation on body stores of glutathione, Jr et al. Eur J Nutr. (2014.5.5) Penn State Hershey Cancer Institute Clinical Trials Office, Penn State University College of Medicine.

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IV. Successful cases

*Bistach Tab. is introduced in about 250 Korean hospitals and 100 drugstores.*

*Currently, sales of Bistach Tab. is reaching $1,830,000 for every month.*

![Sales of Bistach Tab.]

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1. List of Korean hospitals with Bistach tablets

Name of hospital: Kyungbuk National University Hospital.
Information: Representative hospital of states in Republic of Korea
Name of hospital: CHA HOSPITAL
Information: Top hospital for women in Republic of Korea
Name of hospital: Wonjin Plastic Surgery
Information: 43 medical specialists. Representative Plastic Surgery of Republic Korea
Name of hospital: Sungsim Hospital of Hallym University
Information: 800 sickbeds
Name of hospital: BANOBAGI plastic & Aesthetic Clinic
Information: 18 medical specialists. 6 floors
Name of hospital: BK Plastic Surgery
Information: 20 medical specialists. 16 floors
Name of hospital: Oracle Dermatology
Information: 70 branches in & from the country. 100 medical specialists.

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Name of hospital: Gangnamleeds Clinic. ING Plastic Surgery
Information: Both clinics have more than 40 medical specialists.
Name of hospital: LET MIIN CLINIC/ Gangnam Sungsim Hospital/ Artist Plastic Surgery. Reyoun Clinic and other hospital and drugstores.
Information: All clinics have more than 20 medical specialists.
Genesis Pharm has exclusive sales of Bistach Tab. (all the hospitals in Republic of Korea & Foreign country)

- **Exclusive sales**: Per country. In case of China – per province

- **MOQ**: 30,000 tablets

- **Price**: 200,000KRW (about $183) per 300 tablets (on the basis on 30,000 tab.)

- **Period of exclusive sales**: 1 ~ 5 years.

- **Kind of transportation**: by air or ship

- **Terms and Conditions of Trade**: FOB (Free On Board)
The person in charge: Yu Young Kang

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Thank you