

raw material approved by ECOCERT GREENLIFE, conform to the COSMOS Standard

IECIC (2014) Listed

all components listed in the Inventory of Existing Cosmetic Ingredients in China highly soluble bioflavonoid from Hayashibara

Alpha Glucosyl Hesperidin

for toning up your skir





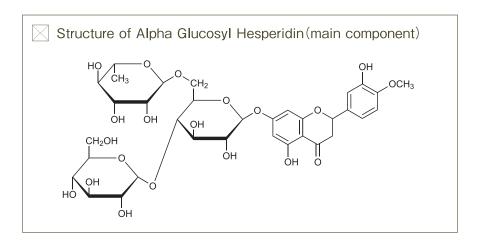
Alpha Glucosyl Hesperidin

highly soluble bioflavonoid from

or centuries in Japan, citrus peels have been added to hot bath water both for their aromatic effects and to provide "a body-warming sensation" after bathing. It is now understood that hesperidin, which belongs to a class of substances known as bioflavonoids, is an active component of citrus peel and is responsible for the warming sensation by stimulating circulation in the skin.

As hesperidin is poorly soluble in water, it is difficult to use in many health, beauty and cosmetic products.

Alpha Glucosyl Hesperidin is composed of glucose and hesperidin, bound together using technology developed by Hayashibara. This proprietary process has improved solubility in water, while retaining the natural biologic functions of hesperidin.





Improvement of skin tone by stimulating surface circulation

Many skin problems – such as dark circles under the eyes, dull skin, dark skin and puffy skin – can be related to poor circulation in the skin.

Poor skin circulation can be caused by day-to-day stress, a cold climate, lack of exercise, or lack of sleep; but the result is always the same: tired, older-looking skin.

Alpha Glucosyl Hesperidin has been scientifically shown to improve circulation when applied to the skin, thus helping to overcome the negative physical effects caused by stress, tiredness and cold.

By stimulating surface circulation, Alpha Glucosyl Hesperidin can improve skin tone and color, helping to combat:

- ■Dark circles under the eyes
- Dull complexion
- Tired skin
- Aging skin
- Puffy skin



Hayashibara

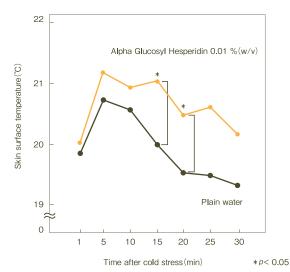
Alpha Glucosyl Hesperidin



Improvement of blood flow

Retention of skin surface temperature

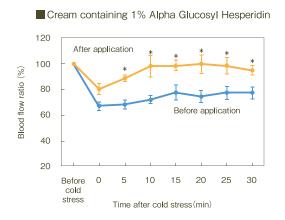
When added to warm water at 0.01% (w/v) Alpha Glucosyl Hesperidin resulted in increased skin temperature.

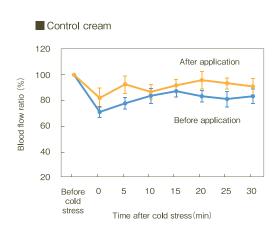


Test solutions were prepared for: (1) water with Alpha Glucosyl Hesperidin added at 0.01% (w/v), and (2) plain water. Six healthy subjects immersed their feet in each test solution for 10 minutes at 40°C. Their feet were then immersed in cold water (15°C) for 1 minute. Skin surface temperature was then measured using thermography every 5 minutes. *Denotes a significant increase for Alpha Glucosyl Hesperidin, compared to plain water at p < 0.05.

Application for formulations

Formulations containing Alpha Glucosyl Hesperidin were found to increase blood flow to the surface of the skin.





Ten volunteers applied a hand cream containing 1% Alpha Glucosyl Hesperidin or a control cream. After applying one of the creams, the volunteers put their hands into cold water (10°C) for 30 seconds to reduce skin temperature. Hands were then kept at room temperature and the blood flow of surface skin was measured every 5 minutes using laser blood flow analysis. *Denotes that significantly greater blood flow was observed after application of Alpha Glucosyl Hesperidin, p < 0.01.

Contact Us

Japan

Hayashibara Co., Ltd.

Nihon-Seimei Okayama Bldg. Il Shinkan
1-1-3 Shimoishii, Kita-ku, Okayama 700-0907, Japan
(TEL/FAX) +81-86-224-4312/+81-86-233-2265
Please visit our website at http://www.intl.hayashibara.co.jp/
for general information and inquiries.

North and South America

Nagase America Corp.

546 Fifth Avenue 16th Floor, New York, NY 10036-5000, U.S.A. (TEL/FAX) +1-212-703-1340/+1-212-398-0687 hayashibara@nagase-nam.com

Europe

Nagase (Europa) GmbH

Immermannstr. 65C, 40210 Dusseldorf, Germany (TEL/FAX) +49-211-866200/+49-211-3237068 hayashibara@nagase.de

Asia

Nagase Business Management and Planning (Shanghai) Co., Ltd.

02, 7F Eco City,1788 Nanjing Road(W), Shanghai, P.R. China 200040 (TEL/FAX) +86-21-3360-7300/+86-21-3360-7337 hayashibara@nagase.cn

Nagase (Taiwan) Co., Ltd.

16F, 248, Sec.3, Nanking E.Rd., Taipei, Taiwan, R.O.C. (TEL/FAX) +886-(2)27733668/+886-(2)27737288

South East Asia and Oceania

Nagase Singapore (Pte) Ltd.

600 North Bridge Road #11-01 Parkview Square Singapore 188778 (TEL/FAX) +65-63980088/+65-63980227 hayashibara@nagase.com.sg

Nagase India Private Ltd.

312, Hubtown Solaris, N.S. Phadke Marg, Near East West Flyover, Andheri East, Mumbai 400 069, India (TEL/FAX) +91-22-6681-8585/+91-22-6681-8508 hayashibara@nagase.co.in

NAGASE & Co., Ltd.

Life & Healthcare Products Dept. Personal Care Products Div. Hayashibara Products Sec. 5-1, Nihonbashi-Kobunacho, Chuo-ku, Tokyo 103-8355, Japan (TEL/FAX) +81-3-3665-3864/+81-3-3665-3131 dnpchb@nagase.co.jp

NAGASE DO BRASIL REPRESENTAÇÃO COMERCIAL LTDA.

Rua Cubatão, 86, 304 e 306, Vila Mariana CEP 04013-000, São Paulo, SP (TEL/FAX) +55-11-3251-3111/+55-11-3262-3451 contato@nagasebrasil.com.br

Nagase (Europa) GmbH, London Branch

The Cobalt Building 6.1, 19-20 Noel Street, London, W1F 8GW, United Kingdom (TEL/FAX) +44-20-7170-4100/+44-20-7170-4380 hayashibara@nagase.de

Nagase (Hong Kong) Ltd.

Suites 3901 & 3912-14, Tower 6, The Gateway, Harbour City, 9 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong, S.A.R., P.R. China (TEL/FAX) +852-2302-7640/+852-2377-2720 nag.color-img-web@nagase.com.hk

Nagase Korea Corp.

Danam Bldg., 23F. 10, Sowol-ro, Jung-gu, Seoul, Korea 04527 (TEL/FAX) +82-(2)7538589/+82-(2)7348747

Nagase (Thailand) Co., Ltd.

14th Floor, Ramaland Building, 952 Rama IV Road, Khwaeng Suriyawongse, Khet Bangrak, Bangkok 10500, Thailand (TEL/FAX) +66-2-632-7000/+66-2-632-7111 hayashibara@nagase.co.th

The information provided herein is for customers in the cosmetic industry and/or cosmetic related industries. None of the information is for end consumers of the final formulations.

The cosmetic industry and/or cosmetic related industry customer is responsible for determining whether products are in compliance with applicable laws and other governmental enactments. Performance of the products described herein should be verified by testing and carried out only by qualified experts. It is the sole responsibilities of the customer to carry out and arrange for such testing. Hayashibara assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third right party intellectual rights, especially patents rights.

Hayashibara does not make any warranty or representation, express or implied, with respect to the utility or completeness of the information provided and specifically disclaims the implied warranties of merchandise-ability and fitness for a particular purpose.

Unauthorized reproduction of this brochure is prohibited.

INCI name: Glucosyl Hesperidin

Alpha Glucosyl Hesperidin is manufactured by **Hayashibara Co., Ltd.** in **Japan**.



CHG2·15·10 5H·®·3·RA