

Product for hair care, anti-oxidant, skin brightening effects

Royal Honey Complex

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www.naturalsolution.co.kr



12-24, Gajangsaneopseo-ro, Osan-si, Gyeonggi-do, 18103, Republic of Korea
www.naturalsolution.co.kr info@naturalsolution.co.kr

Royal Honey Complex



•• Honey



•• Royal Jelly



•• Propolis

Royal Honey Complex is a mixture of honey, royal jelly, and propolis which are well-known for the beneficial effects on the skin. The anti-oxidant compounds found in Royal Honey Complex help skin look pure and healthier.

Honey



- INCI name: Honey Extract
- IECIC name: Honey Extract

- Honey is a sugary food substance produced and stored by certain social hymenopteran insects. It is produced from the sugary secretions of plants or insects, such as floral nectar or aphid honeydew, through regurgitation, enzymatic activity, and water evaporation.
- The variety of honey produced by honey bees (the genus *Apis*) is the most well-known, due to its worldwide commercial production and human consumption.
- Honey gets its sweetness from the monosaccharides fructose and glucose. These elements also provides moisturizing and skin soothing effects.

Research Studies - Honey



Table 1 Honey components with documented or presumed effects on skin

Compounds		Properties
Sugars		Hydrating, ⁶³ antimicrobial
Amino acids		Humectant
Organic acids		Humectant
Vitamins		Nourishing, antioxidant
Minerals		Nourishing
Proteins	Glucose oxidase (H ₂ O ₂)	Antimicrobial ^{4,28}
	Major royal jelly protein 1	Immunomodulatory ⁴³
Phytocompounds	Phenols	Antioxidant ⁶⁶⁻⁷⁰
	Methylglyoxal (manuka)	Antimicrobial ³³

In cosmetic formulations, it exerts emollient, humectant, soothing, and hair conditioning effects, keeps the skin juvenile and retards wrinkle formation, regulates pH, and prevents pathogen infections.

Burlando B, Cornara L. Honey in dermatology and skin care: a review. *J Cosmet Dermatol*. 2013;12(4):306-313. doi:10.1111/jocd.12058

Royal Jelly



- INCI name: Royal Jelly Extract
- IECIC name: Royal Jelly Extract

- Royal jelly is a honey bee secretion that is used in the nutrition of larvae and adult queens.
- It is secreted from the glands in the hypopharynx of worker bees. Royal jelly is collected and sold as a dietary supplement for humans, claiming various health benefits because of components such as B-complex vitamins like pantothenic acid (vitamin B5) and pyridoxine (vitamin B6). Royal jelly is able to use in skin care and natural beauty products. In holistic healing circles and popular alternative medicine folklore, royal jelly is believed to have anti-aging properties stemming primarily from its amino acid content and broad spectrum of vitamins and minerals.

Research Studies – Royal Jelly

🍯 Antioxidant Effect

Table 2
Antioxidant power and total phenols content of honeybee samples (average \pm s) ($n = 3$)

	Electrochemical method (mg g ⁻¹ galangin)	DPPH method IC ₅₀ (mg ml ⁻¹)	Total phenols (mg 100 g ⁻¹ caffeic acid)
Royal jelly			
RJ1	32 \pm 1	3.7 \pm 0.2	–
RJ2	27 \pm 1	7.0 \pm 0.5	–
RJ3	110 \pm 3	1.4 \pm 0.1	–
RJ4	96 \pm 2	2.3 \pm 0.2	–

^a Commercial hydroalcoholic propolis extract.

The data collected demonstrate that within the honeybee products, crude propolis has the highest antioxidant power followed by royal jelly and honey.

Propolis



⦿ INCI name: Propolis Extract

⦿ IECIC name: Propolis Extract

- Propolis is a resinous mixture that honey bees collect from tree buds, sap flows or other plant sources. It is used as a sealant to coat the inner walls of their hives in order to keep their hives sterile and free from bacteria. People began using propolis more than 2,300 years ago for many purposes, the foremost of which was applying it to wounds to fight infection. In tube studies have found propolis to be active against a variety of microorganisms, including bacteria, viruses and protozoans.
- Propolis has also been reported to be effective in treating the inflammatory component of skin burns.

Research Studies – Propolis

Antioxidant Effect

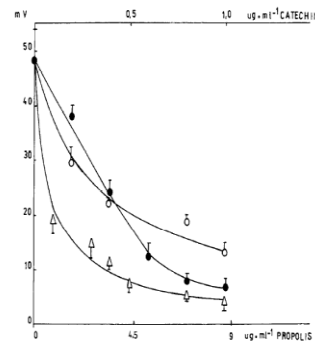


Fig. 1. Effect of propolis and catechin on chemiluminescence produced by the luminol- H_2O_2 reaction. Lower abscissa represents concentration of propolis R (●) and propolis P (○). The abscissa in the upper part represents concentration of catechin (Δ). Peak values of chemiluminescence intensity is represented on the ordinate. Each point represents means of three determinations. Vertical bars represent \pm S.D.

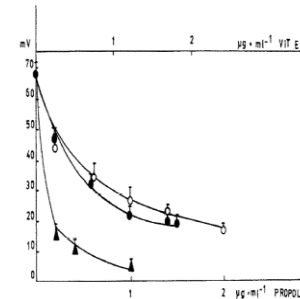


Fig. 3. Effect of propolis on alkoxy radicals generated by the reaction of *tert*-butylhydroperoxide with ferrous ion. The abscissa represented on the lower part indicates the final concentration of propolis R (●) and propolis P (○). The abscissa on the upper part represents the final concentration of vitamin E (Δ). Peak values of chemiluminescence intensity are represented on the ordinate. Each point represents means of three determinations. Vertical bars represent \pm S.D.

The antioxidant properties of both propolis could be attributed to their free radical scavenging activity against alkoxy radicals and to a lesser degree against superoxide.

Reference : Scavenging action of propolis extract against oxygen radicals

Product Information

- ❖ **Product Name:** Royal Honey Complex-GNS
- ❖ **INCI Name:** Honey Extract/ Propolis Extract/ Royal Jelly Extract
- ❖ **IECIC Name:** Honey Extract/ Propolis Extract/ Royal Jelly Extract
- ❖ **Dosage:** 1 – 3%
- ❖ **Formulation:** Add to the formulation when the temperature is lower than 55°C. Recommended to add after the cooling process.
- ❖ **Storage:** Avoid direct light or UV. Keep it in a dry area at room temperature.



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