Water Preparation of Whole Propolis: Hydro IonizationTM Process

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Technical Achievement of Hydro IonizationTM Process

My goal has been to make propolis available as a whole natural substance in a form compatible with and combinable with the liquid components of the body.

The water emulsification of crude propolis allows the full range of biological influence of propolis.

Water preparation of whole propolis by GlenHeaven Propolis' proprietary Hydro IonizationTM process is a potent and versatile form of a familiar bee product.

Technical Achievement



Crude Propolis as Made by Bees



Water
Proprietary Processing
Trace Elements



GlenHeaven Propolis'
Water Preparation of
Whole Propolis (*GHP*)

Emulsion of Whole Propolis

Developmental Model

Process was modeled on blood serums where a variety of fats, proteins, & minerals are held in a combination of water based solution and suspension.

Processing is done at low temperature to preserve fragile or volatile compounds.

Process developed with view of propolis as an optimal, integrated, natural substance rather than a collection of active compounds.

Universally Acceptable Solvent

GlenHeaven water preparation of propolis was originally formulated for high potency, high dosage use where alcohol or propylene glycol were not acceptable solvents.

It is especially suitable where another solvent might cause tissue damage or is culturally or palatably unacceptable.

Clinical, Research, and Manufacturing Flexibility

- GHP combines easily with almost any liquid or semi-liquid substance at room temperature.
- Clinicians can easily compound propolis based remedies to specific conditions.
- Researchers can formulate new *in vivo* research applications and study total substance.
- Manufacturers have more flexibility in product development and low tech fabrication.

Mixes Easily With Water



GlenHeaven Propolis diluted in water facilitates oral ingestion in low or high dosages.

GlenHeaven Propolis diluted in saline with precipitates decanted has been used for:

Ophthalmic applications
Nebulized inhalation therapy
Experimental internal surgical wound treatment

GHP Mixes Easily With Honey



GHP diluted in honey facilitates oral use of propolis in low or high doses.

GHP mixed with honey at crude propolis concentrations of 0.5% to 25.0% has been used for:

Ophthalmic applications
Ear and sinus infection
Topical antimicrobial applications
Burn and wound healing and analgesia

GHP Mixes Easily With Oil, Fat, Wax, & Gel Preparations



GHP's versatility enhances it's everyday use with various health, hygiene, and cosmetic products.

GHP mixed with specialty carriers is especially useful in:

Dental applications

Medical suppositories

Skin treatment

External veterinary applications

Summary

- The development of GHP makes the total native substance of propolis available for study and use.
- The technological flexibility of GHP makes propolis a more accessible and specifically useful bee product.
- The unique suitability of GHP for high oral dosage will hopefully facilitate the expanded clinical use of propolis for cancer and hepatic conditions.