

## APL Product Call Q & A – Behind the Science of BTY

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### 1. BTY has the most botanicals of all the lozenges, 20 different ones in the proprietary blend. Based on your knowledge, why so many and why these particular ones?

- Each botanical contributes unique phytonutrients or phytochemical compounds that result in healthier cells of the hair, skin, nails, and circulatory and immune systems.
- Each botanical has its own variety of unique DNA or genetic codes of gene sequences that our body's cells can use to repair their own DNA and normalize their functions.
- Some plant phytonutrients help carry away synthetic chemicals that clog the micro circulatory systems:
  - Keep blood vessels clear of plaques.
  - Keep lymph nodes and lymph vessels clear of plaques and accumulations of synthetic pollutants.
  - Help carry oxygen and nutrients for better energy production, clear thinking, balanced hormones.
  - Bind molecularly to synthetic chemicals to allow them to escape from the body's tissues, particularly, the fatty tissues (brain, nerve cell coatings, stored in fat cells under the skin and in the liver.
- Some plant compounds help repair damaged cells and reduce overall inflammation and therefore swelling, skin discolorations, edema (abnormal water retention).
- Most aid in natural daily detoxification, and helping immune cells eliminate toxins that affect the skin's appearance.
- All plant compounds play a role in energy production, providing more energy for physical work, thinking, focusing, concentration, cognizance.
- BTY formulation contains phytochemical compounds that help the body produce over ten thousand hormones, some of which stabilize and elevate moods, and help calm the stress response.

**2. When referring only to the BTY lozenge drop, we hear the term **nutricosmetic**. Can you explain what this term means?**

- A term invented by the beauty industry (also called cosmeceuticals).
- The beauty industry is allowed to make misleading claims about their products that the supplements industry cannot.
- Companies that produce nontoxic beauty products or use isolated nutrients or botanicals or botanical extracts in their formulas have very limited delivery internally.
- Nutricosmetic products may contain nutrient factors that alter the appearance of the skin's upper layers—gentle cleansers, non-oily moisturizers that improve skin texture.
- Can improve the skin's appearance only as far as the antioxidant content that may destroy bacteria or fungi that causes topical skin problems.
- Nutricosmetic products may also contain fillers and preservatives that may be retained in the tissues and do long-term cell damage, unless it is an all-organic product.
- Over time, a nutricosmetic's ingredients begin to chemically degrade and form free radicals or cell-damaging molecules.
- The APL lozenges are a nutritional supplement, not a nutricosmetic.
- Free radical skin damage or other skin eruptions should be corrected by maintaining a clean, inner system ecology through optimal cellular nourishment: purified spring water, a wide variety of raw fresh produce containing a vast array of essential phytochemical antioxidants and vitamins and minerals, and a well-balanced diet that includes adequate complete animal-derived proteins, whole food fats, and carbohydrates, and eliminating all processed, molecularly altered foodstuffs.

Reference for further reading:

Ahmed, I. A., Mikail, M. A., Zamakshshari, N. H., Mustafa, M. R., Hashim, N. M., & Othman, R. (2022). Trends and challenges in phytotherapy and phytocosmetics for skin aging. *Saudi journal of biological sciences*, 29(8), 103363. <https://doi.org/10.1016/j.sjbs.2022.103363>

3. There are a lot of choices and confusion about the 5 different types of collagen and which ones are needed for what. How does our BTY product address the collagen types?

- Collagen is an animal protein, that comes from cartilage, the connective tissues of the bodies of animals and humans.
- The type of collagen merely denotes the type of animal from which it was derived.

Type	Animal	Collagen Sources
I	Beef, bone broth, egg shell membranes	Ligaments, tendons, organs, blood vessels, bones.
II	Chicken, bone broth	Joints, cartilage, gut lining.
III	Beef, bone broth, fish	Organs, blood vessels, muscle structures.

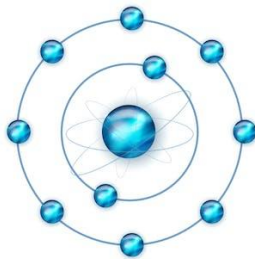
- The body produces its own collagen after eating meats, poultry, and fish, particularly when the collagen in the animal food source is simmered and it is released into the broth.

4. **BTY(Beauty) is used to bring out your natural beauty and radiance from the inside out. We're all searching for anti-aging vitamins and supplements. How does our unique blend and acumullit SA technology help in this area?**

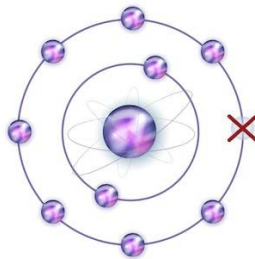
- Acumullit SA technology adds more electrons that help prevent damage to and malfunctioning of the body's cells.
- As more electrons are taken up in the plant materials' submolecular atomic orbitals, the better able the body's cells can neutralize and eliminate damaging, foreign substances (free radicals).
- If something becomes "oxidized" it refers that an electron has been taken from its balance of atomic protons and electrons, and in such oxidative stress conditions, forms a free radical or an unstable molecule.
- Free radicals damage cell structures and DNA, impairing growth and proper development of cells in the body as they replicate.
- Free radicals lead to the duplication of mutated cells, which leads to development of cancer and/or accelerated aging.

**Traditional Theory of Atomic Structures**

**FREE RADICAL  
AND NORMAL MOLECULE**

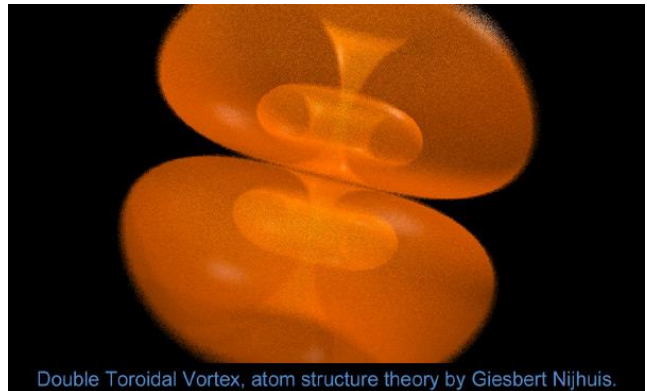


STABLE MOLECULE



FREE RADICAL  
MISSING ELECTRON

**More Recent Theory of Atomic Structures as a Toroidal Vortex Field Surrounding a Zero Point Energy**



Images: <https://theconversation.com/13-ways-to-get-more-antioxidants-and-why-you-need-to-70035>  
<http://www.laesieworks.com/ifo/how/atoms.html>

**5. It's not a quick process normally to see improvements in hair and skin when taking in supplements using the sluggish digestive system. Can you speak to why we may possibly see results much quicker using a product like BTY?**

- The plant DNA and mitochondria and protein-producing organelles in the drops, in addition to the phytonutrient compounds, improve the quality of cells of the hair and skin as well as throughout all cells in all systems.
- The protein-generating endoplasmic reticulum organelles in the botanicals contain information that is easily used in our own cells as protein, or for repurposing and forming our own endoplasmic reticulum since the blueprints are so similar.
- Cell turnover rates for skin and hair follicles are 28-40 days.
- Skin and hair need sunlight to produce the hormone-like vitamin D3 (cholecalciferol), which stimulates hair growth.

**6. Besides the benefits of healthy skin and hair what other benefits do you see the botanicals of BTY offering?**

- Balancing hormones—calming the nervous system, elevating moods, improving perspectives, self-esteem, self-belief, self-respect, forgiveness, objectivity, reasoning, logic.
  - Reducing inflammation—aiding the immune system's response to physical, mental, and emotional stress, bringing it back to biochemical balance or homeostasis.
  - The botanical nutrient factors in BTY:
    - ✚ Help normalize the acid/alkaline balance (brings body pH to normal ranges).
    - ✚ Help eliminate microorganisms that cause infections in urinary and reproductive areas.
    - ✚ Help improve hormones that govern the reproductive system and improve libido.
    - ✚ Help improve energy levels (which compels more movement and increased circulation).
    - ✚ Help aid digestion.
    - ✚ Help increase blood cells and hemoglobin (oxygen-carrying substance in blood).
    - ✚ Help increase muscle endurance and cardiorespiratory capacity.
    - ✚ Help normalize blood glucose or sugar-regulating functions.
    - ✚ Help normalize how the body's organs process and utilize fats; improves cholesterol balance.
    - ✚ Help normalize heart and blood vessel cellular functions, improve blood flow.
    - ✚ Help normalize water balance in the urinary system, and therefore help normalize blood pressure.

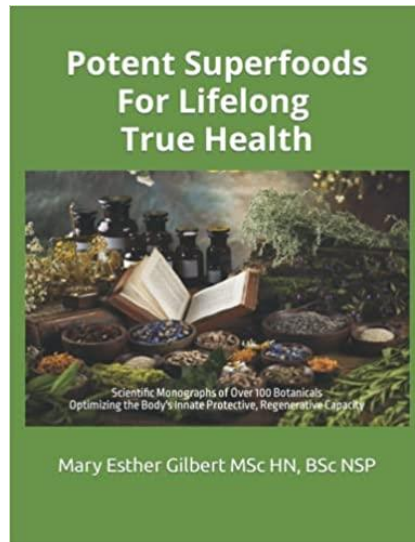
- ✚ Help the immune system recognize and eliminate free radicals (foreign damaging substances), abnormal cells and invasive microorganisms.
- ✚ Help normalize nervous system activities and improve memory.
- ✚ Help remove toxins via detoxification channels: respiratory, integumentary (skin), urinary, digestive, lymphatic, and fat-storage system.
- ✚ Help in cell repair (the healing process in injuries) and restoring proper functioning.
- ✚ Help improve microcirculation for optimal hydration, and oxygen and nutrient delivery—the ultimate beauty treatment for soft and supple, firmer skin, strong nails, and healthy hair.

Reference:

Gilbert, M. E. (2021). Potent Superfoods for Lifelong True Health. Tucson, AZ: Holistic Choices Publishing.

**This book contains detailed scientific monographs for 109 botanicals, including the individual botanicals in the BTY formula:**

Aloe Leaf (Gel) (*Aloe vera*)  
Apple (*Malus domestica*)  
Artichoke Leaf (*Cynara folia*)  
Ashwagandha Root (*Withania somnifera*)  
Avocado (*Persea*)  
Chamomile, German, Flower (*Matricaria recutita*)  
Dandelion Root (*Taraxacum officinale*)  
Ginseng, Siberian, Root (*Eleutherococcus senticosus*)  
Grape Seed (*Vitis vinifera*)  
Green Tea Leaf (*Camelia sinensis*)  
Lemon (*Citrus limon*)  
Licorice Root (*Glycyrrhiza glabra*)



Magnolia Vine Fruit (*Schisandra chinensis*)  
Meadowsweet Leaf (*Filipendula ulmaria*)  
Milk Thistle Seed (*Silybum marianum*)  
Pomegranate Seed (*Punica granatum*)  
Rowanberry (*Sorbus aucuparia L.*)  
Strawberry, Wild (*Fragaria vesca L.*)  
Turmeric Root (*Curcuma longa*)  
Water Hyssop Leaf (*Bacopa monnieri*)

**Order “Potent Superfoods for Lifelong True Health”**

<https://www.holisticchoices.com/books-by-mary-esther-gilbert>  
or [Amazon](#)

- Exposing the truth about your immune system, optimizing all body systems for protecting against deficiencies and toxicity-related, degenerative health conditions.
- Reaching your higher health potential through nature's precise, corrective cellular nourishment.
- Comprehensive peer-reviewed, validated scientific studies on 109 potent botanicals and functional foods.
- Revealing the deeply researched healing properties of fruits, berries, herbs, vegetables, roots, mushrooms, edible flowers, and more.
- The truth about safe and effective, preventive health management, vital information that has been discounted, ignored, and kept obscure from the public, until now.
- More than ever before, this critical reference of nutrient-dense, potent superfoods is a must for every home, college, and public library.