



**QUANTUM SCIENCE™**  
BioTech Optimum Energy Program

# Quantum BeautyBar™

French Technology



☀️ **Lifting** ☀️ **Whitening** ☀️ **Brightening** ☀️ **Firming**



*A Step to Younger Skin*

"Optimum Energy for Peak Performance"

FusionExcel's **Quantum BeautyBar (QBB)**, is the latest in skincare technology from France and is embedded with Fusionexcel's scalar energy technology to give you a complete All-In-1 skincare solution (Read writeup below). QBB is different from most traditional skincare in the market as it is in the form of a bar of soap as compared to most skincare which are in liquid or lotion form and comes in bottles or jars. It is also different from traditional skincare which usually comes in 3 or 4 separate bottles or jars for different functions (cleansing, exfoliating, moisturising, etc). QBB is an All-In-1 skincare product designed for ease of use and convenience and is suitable for both men and women. You just apply with water and rinse off after 15-20 seconds. What can be easier than that! It saves you a lot of time, no more spending 30 mins or more to do your daily cleansing, exfoliating, moisturising, etc. (For men, you have an added bonus, you can use it as a shaving cream in the morning and shave

yourself at the same time!) QBB is also easy to transport around when you travel (each bar is only 25 grams and fits easily into your toiletry pouch) and you don't have to worry about liquid or broken bottles in your luggage anymore.

Another Winning Product from FusionExcel that will go GLOBAL very quickly, just like the Quantum Pendant!

## **ABOUT QUANTUM BEAUTYBAR.**

Quantum Beauty Bar™ is designed to fight against ageing through development of three active functions namely,

### **TimeCode, SurviCode and EnergyCode.**

For the first time, the ageing genetic print has been defined and the “youth capital” code of the cells decoded. Three years of research led our French scientists to identify the two active ingredients selected from among more than a hundred molecules. Their lipoamino acid structure, obtained by bio-vectorisation of an amino acid on a lipid chain, optimizes cutaneous bio-affinity for enhanced efficacy. Specially developed objectification protocols have demonstrated their performance against causes of ageing (such as “inflamm-ageing”, reduction in stem cells longevity and cellular communication).

Thanks to an original cell ageing model the genetic mapping of young and artificially-aged fibroblasts has been determined. Age-related expression of key genes has been decrypted. This genetic mapping protocol has enabled the selection of the two active ingredients, TimeCode and SurviCode, that give cells a younger phenotype once more. As skin ages, it is subjected to numerous stresses. The previously described protocol demonstrated that several genes are involved in skin ageing. It results in several physiological changes to the dermis and epidermis. The skin is sensitized, dull and less firm. TimeCode combats these skin changes. SurviCode prevents a loss of regeneration potential, cell anarchy and skin fragility. Together they fight against ageing via original and complementary mechanisms of action, in order to restore the skin's youthfulness.

### **Fighting chronic ageing**

TimeCode, referred to in this article as the first active, combats chronic ageing or “inflamm-ageing”, which sensitizes the skin (inflammation code). It restores the skin's microcirculation and provides the complexion with a new radiance (microcirculation code) and it strengthens the structure of the dermis, for a firmer skin (architecture code).

### **Inflammation Code**

Chronic inflammation is a very important factor in cutaneous ageing, even though it is not much described in the literature. Recent publications reveal that interleukin-6 is present at high concentrations in the elderly. This proinflammatory cytokine plays a significant role in the ageing process. Indeed, an increase in this substance has been identified in artificially-aged cells. The first active limits the IL-6 genetic expression while restoring 60% of a young phenotype. Inflammatory ageing is reduced, and the skin regains its vital balance.

### **Microcirculation Code**

The first active targets another cause of ageing: the deterioration of the micro vascular network which causes cell metabolism to slow down (poor oxygenation, lack of nutrients, etc.), leading to dermis degeneration. The skin becomes dull, tired, and lacks radiance. This makes wrinkles appear more visible. The first active promotes the formation of new vessels – an effect demonstrated on quantification of neo-vascularisation and correlated with an increase in complexion radiance on skin

explants. The network is 18% improved and brightness is boosted without causing redness after 14 days of treatment. The first active therefore restores the skin's radiant freshness via an original action code, which differs from that of complexion lighteners, which only act on tyrosinase.

### **Architecture Code**

The action code of the first active also improves the architecture of the extracellular matrix (ECM), the framework of the skin. Deterioration of ECM components leads to a loss of tissue firmness. Pro-collagen 1, tenascin C and dermatopontin (a recently identified protein) play a key role in the synthesis and organisation of the collagen network (main component of the ECM). It is a reduction in the gene expression of these three proteins that causes disorganization of the skin's architecture. The first active restores simultaneously their expression, thereby boosting the synthesis and efficient organization of ECM. In addition, the components of the ECM are damaged by matrix metalloproteinase-1 (MMP-1) or collagenase, the expression of which increases with age. The first active also reduces the expression of these proteins, to prevent deterioration of the dermal matrix. By promoting synthesis and preventing the deterioration of the ECM, the first active strengthens the architecture of the dermis and the epidermis. Thus, the skin becomes firm and soft again.

TimeCode reduces "inflamm-ageing" for a smoother skin, restores microvascularisation for a radiant complexion and protects the ECM architecture for a firmer skin. This active ingredient winds up the chronological dial of the cells and gives them back a new cutaneous youthfulness.

Boosting simultaneously SurviCode, subsequently referred to as the second active, offers a totally original cell survival code. This active ingredient is completely innovative as it is able to boost simultaneously the "time" proteins of dermal cells (sirtuin-1) and epidermal stem cells (nuclei survivin), providing a unique and revolutionary regeneration potential (cellular longevity code). It restores harmony between the cells by stimulating their "dialogue" proteins (communication code), and it protects the skin from external attacks by maintaining its sentinel cells efficacy (defence code).

### **Cellular Longevity Code**

The quest for eternal youth is hugely important in the 21st century. How can it be achieved? One solution is to increase the longevity of stem cells in order to delay the development of wrinkles.

Our scientists have therefore focused on two "time" proteins: sirtuin-1 and nuclei survivin, which are essential to cellular longevity. Sirtuin-1, linked to all cells' survival, ensures skin integrity. Nuclei survivin, specific to stem cells' survival, guarantees the regeneration potential of the epidermis. The expression of these two "time" proteins falls significantly with ageing, triggering a slowdown in the vital functions of the cells. With the second active, the expression of survivin is restored to 152% and that of sirtuin-1 to 55%. SurviCode is the first active substance capable of acting simultaneously on the expression of sirtuin-1 and survivin. It has a totally original action against time, acting on dermal and epidermal cells, and it guarantees a unique regeneration potential.

### **Communication Code**

Better cutaneous harmony is also ensured, thanks to the second active's action on the "dialogue" proteins involved in communication between the cells of the dermis and the epidermis. Epidermal dialogue (between keratinocytes) is guaranteed by connexins, which compose the "GAP junctions" (dialogue channels). The structure of the dermal-epidermal junction (DEJ), enabling dermal-epidermal exchange, is guaranteed by nidogen. Dermal-epidermal exchanges (fibroblasts, keratinocytes) are ensured by pleiotrophin, the role of which has recently been identified. During the ageing process, expression of these proteins decreases. Dialogue between the dermal and epidermal cells slows down,

leading to cells anarchy. The second active reverses this process: it restores gene expression of these proteins (increases the expression of connexin-26 to 41%, of nidogen to 124% and of pleiotrophin to 14%). Old cells regain a younger phenotype and improve their communication at all levels of the skin. Harmony is restored.

### **Defense Code**

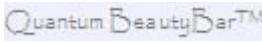
The second active also acts against time and wrinkles by combating photo-ageing. The skin is protected by sentinel cells: Langerhans cells (LCs). During photo induced ageing, these cells are damaged, leading to a loss of the skin's defenses. Skin explants exposed to UVB demonstrate a visible reduction in LCs. The addition of the second active prevents this process: the LCs is protected. They are able to fulfill their role of defending the skin properly. The second active represents a genuine cell survival code, making the skin beautiful for a long time. It boosts the survival of stem cells in order to protect the skin's youthfulness. It restores communication between the dermis and epidermis for greater harmony and maintains photo protection of the skin to defend it against the signs of ageing.

### **Clinical efficacy**

Thanks to their innovative action codes, the two actives clinically reduce deep, moderate and fine wrinkles after just 42 days of treatment (significant reduction in comparison with a reference anti-ageing formulation). The efficacy tests were conducted on volunteers (average age: 56 years).

with formulas containing 1% SurviCode and 1% TimeCode, in comparison with a formula containing 3% of a reference anti-ageing lipopeptide, for only 42 days of treatment. Up to 78% of volunteers demonstrated a positive anti-ageing effect with TimeCode and SurviCode. The actives' action against wrinkles was statistically more effective than the reference anti-ageing lipopeptide.

### **EnergyCode**

The specially embedded scalar energized  enhances the body's bio-electric field when you use it on your face and body. It works to facilitate cell permeability and thereby enhances the many physiological functions of the skin cells in the body.

EnergyCode is also known to

- Reduce inflammation of the skin.
- Rejuvenate your skin by enhancing blood circulation and increase oxygenation to your skin.
- Increases energy to your overall being.
- Protect skin DNA from damage.
- Retard skin aging process.
- Increases hydration to your dry skin to prevent formation of wrinkles.
- Strengthens the body's bio-field by preventing electro-magnetic waves from affecting one's skin.

**For a more comprehensive understanding of scalar energy, please refer to the book “Optimum Energy for Peak Performance with Scalar Energy”, written by Dr. Siva Poobalasingam MD and Nisha Lakshmanan MA (published by FusionExcel International).**

### **Quantum Beauty Bar pH.**

The Quantum Beauty Bar's pH range is between 7+ to 8+. This pH will become lower with passage of time. The basic function of a beauty bar is to lather easily and the natural fragrance of the combined oils including natural scents can be readily released at this alkaline level of pH of 7+ to 8+.

Quantum Beauty Bar choose this process so that more ingredients can be combined together. This new technology allows different types of molecular forces to stimulate the skin to utilise the Molecular Facilitation whereby enough molecular forces will cause ionic bonds between epidermal cells to loosen and temporarily widen gaps between cells for facilitating biochemical micro activities. It further improves the delivery system of the active ingredients to the target area of the skin.

In the past 10 years, most detergent manufacturers, due to lack of technologies to produce effective beauty bars, focus on producing products based on a pH of 5 + to 6.5 + (a little more acidic) for the outer skin to give the outer skin the so called “shine”. However, most of the active ingredients simply stay on the outer skin and washes away immediately. Quantum Beauty Bar is designed to penetrate to the innermost level of the skin which is not acidic in nature. With this latest technology, Quantum Beauty Bar stimulates the skin’s oil and sweat glands directly, causing the skin to moisturize itself to give the anticipated shine or radiance or brightness. The old idea of "slightly acidic pH to prevent the growth of micro-organisms which can lead to infection and which causes pimples, etc." does not apply here because Quantum Beauty Bar itself has multiple anti-microbial activities which work synergistically to kill existing micro-organisms fast. In fact, the higher the pH the chances of bacteria and viruses surviving will be lower. That’s the reason why table salt with a pH level of close to 14+ is widely used as a food preservative since the old days.

### **Ingredients**

Scalar Energized Water, Sodium Hydroxide, Garcina Mangostana Peel Extract, Aloe Barbadensis Leaf Extract, Algae Extract Fragrance, Cocamide Dea, Glycerin, Mogosteen Pulp Extract, Citrus Microcarpa Extract, Prunus Amygdalus Dulcis (Sweet Almond) Oil, Hydrolyzed Sweet Almond Protein, Potassium Palmitoyl, Hydrolyzed Wheat Protein, Cocoyl Alanine and Palmitoyl Glycine.

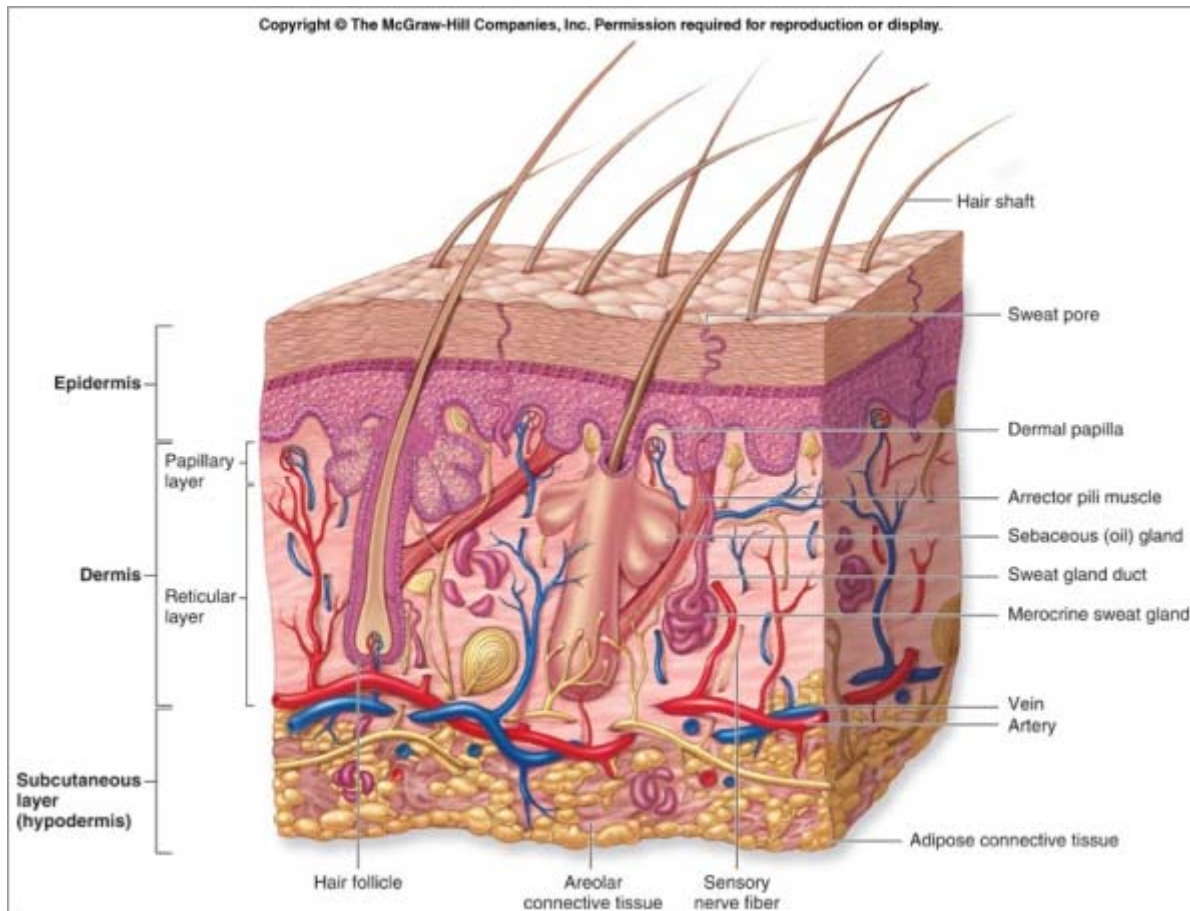
### **Application**

Use the Quantum BeautyBar™ like normal soap 2 to 3 times daily.

Apply directly onto your face and body. After 20 Seconds, wash or shower it away.

### **Disclaimer :**

**This product is not a medical product, and is not intended for use to cure, to mitigate, to treat or for prevention of diseases.**



## Skin is a Good Indicator of Aging

01. The skin is the outer most structure of our body.
02. It's the largest organ and it's the last organ that will receive nutrients.
03. The skin condition including color tone, disposition, texture and other abnormal indication are tell tales sign of illness and nutrient deficiency within body.
04. The skin's outermost layer is being replaced every second of our life. Just the facial area of 4 by 8 inches, desquamate 50,000,000 dead cells per second.
05. Growing from the bottom layer of the epidermis to the outermost layer, it takes only 28 days (for ages below 16 years) and up to 50 days (for ages 50 years and above).
06. 28 days is considered as the standard yard stick for skin cell renewal. Skin becomes thinner at the Granular layer and thicker at the epidermis as we age when renewal rate slows down to 50 days.
07. Before 5 years of age, our skin is supple and elastic and by the time we reach 20 years old, our skin begins to lose the elastic and supple disposition.
08. The sun's UV is the main cause of skin problem. UV triggers Free Radicals that activate Ap1 thru transcription factor molecules that signal DNA within the cell to activate collagen tissue and digestive enzyme production.
09. These activities in return create Micro Scarring leading to wrinkle formation.

10. Another cause of wrinkle formation is the lack of “Energized Water” available for collagen synthesis. We need at least 2 liters of water per day to prevent dehydration.
11. UV induces Free Radical action which also induces photo sensitivities. The skin activates the enzyme tyrosinase to release melanin (color) to reduce UV penetration.
12. This gradually leads to development of uneven skin tone leading to pigmentation and age spots as we accumulate more DNA damages.
13. Structural changes, wrinkle formation and pigmentation are signs of skin aging.
14. Molecular nutrition is the answer.