



WE MAKE THE FUTURE INNOVATION FOR LIFE.

THE FUTURE
OF INNOVATIVE
LIFE SCIENCE
IS NOW **HERE.**

GET START

ABOUT US

INOXELLA is the connector to initiate the innovative life science.

We believe to become the leader in innovative product for better lives.

The new discovery, innovative biomaterials were explored by INOXELLA.

We fully prepared the special of all about services of researches from the starting station to commercialized station.

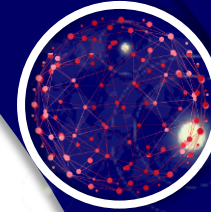
"We ready to bring and initiate your innovative dreams together."

OUR VALUE

**SUSTAIN
ABLE**

**INNO
ACTIVE**

**CRE
ACTIVE**



INNOACTIVE

Create the new discovery of innovative biomaterials more than 100 special materials based on life-science applications.



CREACTIVE

Connect the research networks and initiate the innovative society for creating the world of life science solutions.



SUSTAINABLE

Merging selection of natural materials, no animal cruelty and creating sustainable of the green chemical society.

NANOACTIVE TECHNOLOGY

- LIPOSOMES •
- PRECUSTOMIZED •
LIPOSOMES
- NIOSOMES •
- SOLID LIPID •
NANOPARTICLES

MICROSENSE TECHNOLOGY

- CORE/SHELL •
AND MATRIX
MICROCAPSULES

GRANULIZE TECHNOLOGY

- CO-PROCESSED GRANULES •

INNOVATIVE
RESEARCH

NANOACTIVE
BASED
PRODUCTS

SPECIAL
PATENT
PROPERTY

BIOACTIVE
MATERIAL

PRODUCTS

We strive to contribute the fully special services and offer the variety solution of original design manufacturing, technical services, customize chemicals, marketing concept creation and provide distribution channels.

BIOACTIVE
MATERIAL
CENTER



CUSTOMIZE
CHEMICALS



SERVICES



TECHNICAL
SERVICES

INOXELLA

WE MAKE THE FUTURE INNOVATION FOR LIFE.



PRODUCT DESCRIPTION

- Liposomes remain a popular and unique drug delivery system which able to deliver a variety of active ingredients into a specific region.

• PRODUCT

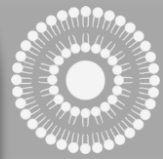
- Docosahexaenoic acid
- Astaxanthin
- Turmeric Extracts
- Honey Extracts
- Lutein
- More >

• APPLICATION

- Dietary Supplements

• DOSAGE

- 3.0 to 5.0%
- Usage pH value: 4.0 to 7.0
- Water Dispersible



Patented
Liposome
Technology



Selected
Natural
Inspiration



Powerful
Active
Combination



More Gentle
Harmful
Chemical Free

FOR ULTRA ACTIVE PERFORMANCE
REVOLUTION IN NUTRITION



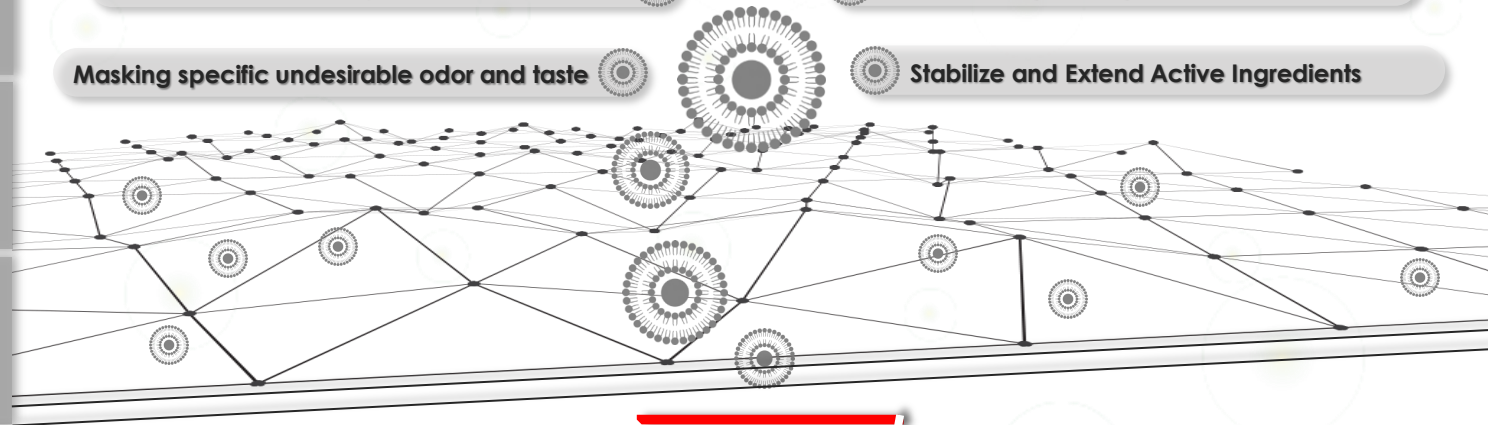
INTEREST BENEFITS OF LIPOSOMES

Enhance Active Ingredients Performance

Promote Long-Lasting Treatment Efficacy

Masking specific undesirable odor and taste

Stabilize and Extend Active Ingredients



CONVENTIONAL TECHNOLOGY*

More complicated preparation and highly time-consuming.

Remain harmful solvent contamination.

Uncontrollable preparation cost.

Difficult to scale-up in Manufacturing operation

Non-uniform particle size and low encapsulation efficiency.

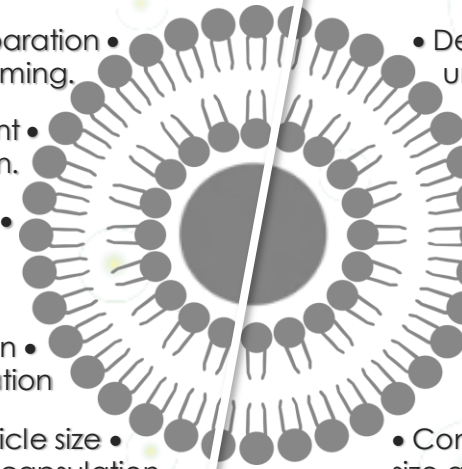
Desired preparation and unnecessary downsizing process.

Fully natural ingredients and free-from harmful solvent.

Desirable preparation cost and non-require High Pressure Homogenizer.

Non-require special manufacturing operation

Consistent controllable particle size and encapsulation efficiency.



PRODUCT DESCRIPTION

• INGREDIENT LIST

Docosahexaenoic acid (Active),
Maltodextrin, Sodium Casinate,
Lecithin, Alpha-Tocopherol,
Polysorbate 80

• BENEFIT

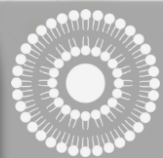
- More performance with ultra-deformable delivery system.
- Powerful active absorption and targeting to active region.
- Stabilize and extend shelf-life of active ingredients.

• APPLICATION

- Dietary Supplements

• DOSAGE

- 3.0 to 5.0%
- Usage pH value: 4.0 to 7.0
- Water Dispersible



Patented
Liposome
Technology



Selected
Natural
Inspiration



Powerful
Active
Combination



More Gentle
Harmful
Chemical Free

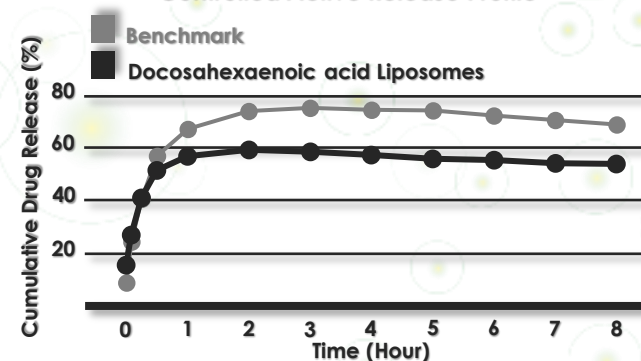
FOR ULTRA ACTIVE PERFORMANCE
REVOLUTION IN NUTRITION

IN VITRO EFFICACY TESTING

• Long-lasting Efficacy Evaluation

Docosahexaenoic acid Liposomes and Benchmark applied into Modified Franz Diffusion Cell. The concentration of active permeation at different time was evaluated via HPLC techniques.

Controlled Active Release Profile

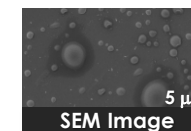


Promote the long-lasting healing efficacy.

PHYSICO-CHEMICAL TESTING

Docosahexaenoic acid Liposomes were measured via dynamic light scattering and optical-scanning electron microscopy techs and active entrapment efficiency via HPLC technique.

- Particle Size (nm): 152.47 ± 0.18
- Particle Size Distribution: 0.307 ± 0.00
- Zeta Potential (mV): -2.51 ± 0.09
- Active Entrapment Efficiency (%): 65.89 ± 0.72



- Physical Appearance: Spray-Dried Powders with Light to Dark Brown Color
- pH Value: 5.00-5.50
- Water Solubility: Water Dispersible



More confident with high quality inspection.



PRODUCT DESCRIPTION

- Microcapsules remain a popular encapsulation system and utilize in numerous applications i.e. cosmetics, pharmaceuticals, households, and coating systems.

• PRODUCT

- Melamine Derivatives
- Biopolymers
- Silica Spheres
- PEG-Spheres
- Biopolymer Microbeads
- More >

• APPLICATION

- **Cosmetics:** Creams/Lotions
- **Pharmaceuticals:** Tablets
- **Households:** Detergents
- **Coating:** Material/Paper/Fabric
- **Foods and Beverages:** Flavors



Advanced
Microcapsule
Technology



Specialized
Active Core
Materials



Motion-Sense
Fragrance
Microcapsule



Selected
Natural
Inspiration

UNLEASH YOURS WITH WILD FLORAL SCENTS

INTEREST BENEFITS OF MICROCAPSULES



Protect and Stabilize Active Core Materials



Improve Active Ingredients Performance



Enhance Long-Lasting of Active Ingredients



Masking Undesirable Flavors of Actives

INOXELLA

MICROENCAPSULATION TECHNOLOGY



Motion-Triggered Microcapsules

- Core/Shell Melamine Microcapsules
- Core/Shell Biopolymer Microcapsules
- Matrix Biopolymer Capsules



Moisture-Triggered Microcapsules

- Matrix Silica Microcapsules
- Matrix PEG Microcapsules



Heat-Triggered Microcapsules

- Core/Shell Melamine Microcapsules

PRODUCT DESCRIPTION

• INCI NAME

Natural Flower Oil (Fragrance),
Melamine-Formaldehyde Resin,
Polyvinyl Alcohol, Sorbitan
monooleate, Water

• BENEFIT

- Release fascinating fragrance via hand rubbing.
- Superior protect and stabilize volatile fragrances.
- Enhance intensity stabilization of fragrance scent for all day.

• APPLICATION

- **Households:** Detergents
- **Coating:** Paper/Fabric

• DOSAGE

- 0.5 to 3.0%
- Usage pH value: 3.0 to 10.0
- Water Dispersible



Advanced
Microcapsule
Technology



Specialized
Active Core
Materials



Motion-Sense
Fragrance
Microcapsule



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Natural
Inspiration

UNLEASH YOURS WITH WILD FLORAL SCENTS

FRAGRANCE SENSATIONAL TESTING

• Fragrance Embedment Evaluation

10 healthy volunteers (20-45 years old with normal odorous sensory) sniffed coated fabric with **1.0% Fragrance-Melamine Microcapsules** and scoring fragrance intensity after washing cycle. Benchmark was chosen for the control.

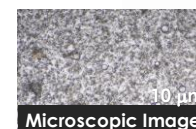
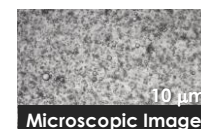


- Stronger scent intensity even passes 10 washing times.
- Unleash attracted fragrance scent for all day.
- More durability even highly surfactant formulation.

PHYSICO-CHEMICAL TESTING

Fragrance-Melamine Microcapsules were evaluated morphology and measured particle size via optical microscopy technique.

- **Particle Size** (μm): 27.38±1.15



- **Physical Appearance:** Viscous Opaque Suspensions with Pale-Yellow Color
- **pH Value:** 3.50-4.00
- **Water Solubility:** Insoluble (Dispersible)

GRANULIZE TECHNOLOGY



PRODUCT DESCRIPTION

- Multi-combination of excipient in the one granules for the superior desirable performances and integrated essential function in pharmaceutical manufacturing.

• PRODUCT

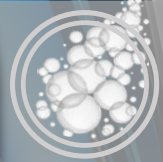
- Fumaric Acid Granules
- Sodium Bicarbonate Granules

• APPLICATION

- **Pharmaceuticals**
- **Dietary Supplements**
- **Cosmetics:**
 - Bath Bombs
 - Mouthwash-Toothpaste Tab.
 - Denture Cleansing Tablets

• DOSAGE

- 30.0 to 40.0%
- Usage pH value: 5.0 to 7.0
- Water Soluble



Specialized
Effervescent
Technology



Multifunction
Pharma
Excipients



High
Temperature
Resistance



Selected
Natural
Inspiration

INTEREST BENEFITS OF EFFERVESCENT TABLETS



More rapid therapeutic performances



Easy to carry on medicine for anywhere



Able to contain large active dose in tablets



Masking undesirable flavors of actives

EFFERVESCENT MANUFACTURING TECHNOLOGY

CONVENTIONAL TECHNOLOGY*

More complicated manufacturing and highly time-consuming.

Remain water/organic solvent contamination.

More moisture absorption in the atmosphere.

Non-resistant to highly temperature condition.

Uncontrollable cost of manufacturing.

Readily to use in the mixing step without complicated production.

Completely non-addition of water/organic solvent.

Less absorb moisture in the environment.

Stronger durable in accelerated condition at 50°C.

Highly cost-effectiveness in tablet production.

IN XELLA

IN XELLA
TECHNOLOGY

BE ACTIVE FAST RELIEVES

GRANULIZE TECHNOLOGY

CO-PROCESSED EFFERVESCENT GRANULES

PRODUCT DESCRIPTION

• INGREDIENT LIST

Fumaric Acid, Polyethylene Glycol, Glucose, Polysorbate 80, Sodium Bicarbonate, Sodium Carbonate

• BENEFIT

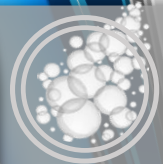
- More readily to use in mixing step, especially direct compression technique.
- Multifunctional excipients without other addition.
- Powerful improvement of effervescent tablet stabilization.

• APPLICATION

- Pharmaceuticals/Supplements
- Cosmetics

• DOSAGE

- 30.0 to 40.0%
- Usage pH value: 5.0 to 7.0
- Water Soluble



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Effervescent
Technology



Multifunction
Pharma
Excipients



High
Temperature
Resistance



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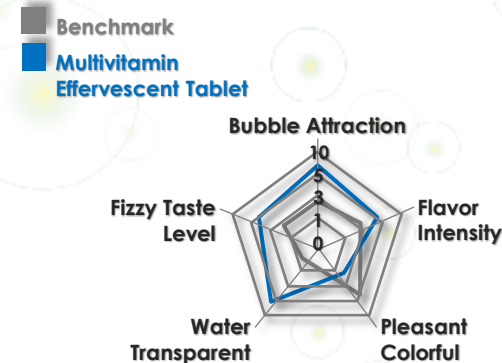
BE ACTIVE FAST RELIEVES

PRODUCT SATISFACTION TESTING

• Effervescent Sensational Evaluation

5 healthy volunteers (25-40 years old with normal sensory) tested and evaluated with **Multivitamin Effervescent Tablet** then scoring satisfaction level after testing in solution. Benchmark was selected for the control.

Effervescent Tablet Satisfaction Score



More mesmerized and enjoyable in product taste.

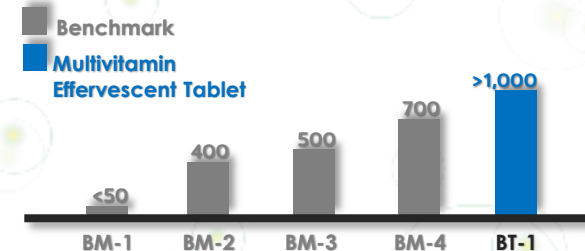


Refresh your senses and rehydrating after drinking.

• Active Performance Evaluation

Carbonic acid acts the key active ingredient in effervescent formulation, determining quantity in ppm (>1,000 ppm) of 5-liter media solution after fizzy tablet was dissolved. Benchmarks were chosen for the control.

Carbonic acid Quantity Determination (ppm)



More dissolving and faster active relief performance.



GRANULIZE TECHNOLOGY

CO-PROCESSED EFFERVESCENT GRANULES

PRODUCT DESCRIPTION

• INGREDIENT LIST

Fumaric Acid, Polyethylene Glycol, Glucose, Polysorbate 80, Sodium Bicarbonate, Sodium Carbonate

• BENEFIT

- More readily to use in mixing step, especially direct compression technique.
- Multifunctional excipients without other addition.
- Powerful improvement of effervescent tablet stabilization.

• APPLICATION

- Pharmaceuticals/Supplements
- Cosmetics

• DOSAGE

- 30.0 to 40.0%
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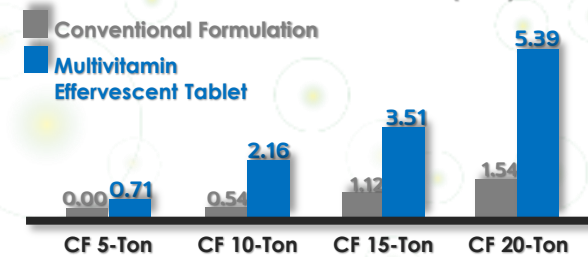
BE ACTIVE FAST RELIEVES

EFFERVESCENT TABLET EVALUATION

• Hardness Testing of Effervescent Tablet

4 Gram of **Multivitamin Effervescent Tablet** were determined tablet hardness via hardness tester machine. Conventional effervescent formulations were selected for control.

Effervescent Tablet Hardness (KGF)



*KGF: the unit of tablet hardness in Kilogram-Force.

**CF: the compression force in tableting process.



Stronger increase hardness of effervescent tablets.



Desirable tablet hardness at lower compression force.

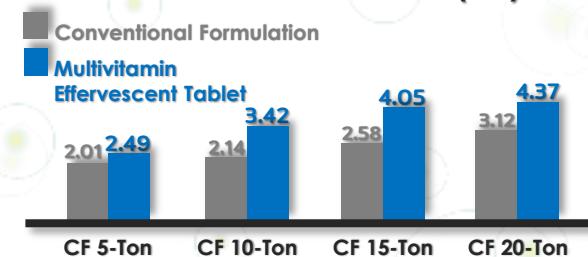


Completely non-addition of water/organic solvent.

• Dissolution Testing of Effervescent Tablet

4 Gram of **Multivitamin Effervescent Tablet** was dissolved in 0.3-Liter of pure water (25-degree Celsius) then recorded the effervescent time and physical media appearance. Conventional effervescent formulations were prepared for control.

Effervescent Profile Evaluation (min)



Fast-dissolving fizzy tablet with more bubble level.



Fully transparent and without insoluble matters.



GRANULIZE TECHNOLOGY



PRODUCT DESCRIPTION

• INGREDIENT LIST

Fumaric Acid, Polyethylene Glycol, Glucose, Polysorbate 80, Sodium Bicarbonate, Sodium Carbonate

• BENEFIT

- More readily to use in mixing step, especially direct compression technique.
- Multifunctional excipients without other addition.
- Powerful improvement of effervescent tablet stabilization.

• APPLICATION

- Pharmaceuticals/Supplements
- Cosmetics

• DOSAGE

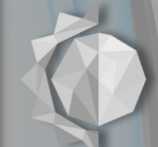
- 30.0 to 40.0%
- Usage pH value: 5.0 to 7.0
- Water Soluble



Specialized
Effervescent
Technology



Multifunction
Pharma
Excipients



High
Temperature
Resistance



Selected
Natural
Inspiration

BE ACTIVE FAST RELIEVES

EFFERVESCENT TABLET EVALUATION

• Accelerated Stability Testing

4 Gram of **Multivitamin Effervescent Tablet** was contained in the general aluminum sachet and applied into 50-degree Celsius of hot air oven for a month. The swollen packaging and non-effervescent reaction of the fizzy tablet were defined as unacceptable conditions. Conventional effervescent formulation was performed for control.

Stability Study	Conventional Formulation	Multivitamin Effervescent Tablet
1 Week	(SW,-)	(US,-)
2 Weeks	(SW,+++)	(US,- -)
3 Weeks	(SW,x)	(US,- -)
4 Weeks	(SW,x)	(US,- -)

*SW: Swollen Packaging

**US: Unswollen Packaging

***(+): Increment of Effervescent Time

****(-): Reduction of Effervescent Time

*****x): Non-Effervescent Reaction



More durable effervescent function even high temp.



Variety of options for optimal packaging selection.



Cost-effectiveness in effervescent tablet production.

PHYSICO-CHEMICAL TESTING

- **Physical Appearance:** Mixture-Granulated White Powder Form
- **Particle Size Distribution:** > Retained Granules on 20-Mesh: 45.0%
> Retained Granules on 60-Mesh: 50.0%
> Retained Granules on 325-Mesh: ≤5.0%
- **Bulk Density** (g/mL): 0.6506
- **Compressibility Index** (%): 12.00 (Good Flowability Character)
- **Recommended Usage:** ~80.0 to 90.0%
- **Water Solubility:** Freely Soluble
- **Manufacturing Condition:** 20.0 to 25.0°C, Relative Humidity: 45.0 to 50.0%



Superior multifunctional properties in one excipient.



INNOVATIVE FULFILLMENT

- More innovations are ready to sell.
- Nanoactive Based-Products
- Bioactive Materials
 - Industrial Applications
 - Special Research Projects
- Intellectual Property (Patent)

TECHNICAL SUPPORTATION

- Free update the novel trend in researches.
- Laboratory station on the road. (For free)
- Free analyze research database for fulfill your innovative ideas.

BUSINESS OPPORTUNITY



FLEXIBLE CONDITION

- Able to negotiation for fitting your investment budgets.
- No contract assignation for after sales.
- No royalty fees and refund deposit payments.
- Completely owner and claims for ODM and flexible capacity.

NETWORK CONNECTION

- Provide raw materials, fine chemicals, and special chemicals.
- More special instruments for laboratory and industry applications.



THAILAND
SCIENCE PARK



NATIONAL NANO
TECH CENTER



NATIONAL SCIENCE
AND TECH AGENCY



INNOHERB-TISTR



FOOD INNOVATION
SERVICE PLANT



EUROBEST
TECHNOLOGY

INOXELLA

WE MAKE THE FUTURE INNOVATION FOR LIFE.

NANOACTIVE BASED-PRODUCTS

PRODUCT

BENEFIT

APPLICATION

COMMERCIALIZATION

• HAIR PRODENSIFIQUE SERUM

- Enhance hair growth stimulation and hair thickness after a week.
- Superior moisturizing and reduce dandruff for healthy hair and scalp.

• Hair Cosmetics

- The nanoactive based-products series under with THE ORBITZ Brand.
- Perform the original design manufacturing for health care applications.

• NATURAL MULTIFRUIT-C IMMUNE BOOSTER SHOT

- Intensive health recovery and immunization booster for daily.

• Dietary Supplements

• POWER MULTIFRUIT-C BOOSTER DRINKS

- Powerful multivitamin-C booster and promote collagen generation for healthy and glowing skin.

• Functional Drinks



BIOACTIVE MATERIALS

NANOACTIVE TECHNOLOGY

PRODUCT	INCI NAME	BENEFIT	APPLICATION	DOSAGE
	Sodium Ascorbyl Phosphate (Active), Lecithin, Cholesterol, Water, Glycerin, Caprylhydroxamic Acid, Pentylene Glycol	• Ultra-deformable carrier. • Enhance actives performance. • Flaw Inhibition of aging, wrinkle, and skin rejuvenation. • Lamellar layer (secondary skin) function for pollutant protection.	• Cosmetics • Creams/Lotions • Gels • Others • Dietary Supplements	• 1.0 to 5.0% • Usage pH value: 4.0 to 7.0 • Water Soluble
	Astaxanthin (Active), Lecithin, Cholesterol, Water, Glycerin, Caprylhydroxamic Acid, Pentylene Glycol	• Stronger antioxidant/scavenger. • Less inflammation and promote skin recovery. • Superior moisturize/soothing skin.	• Cosmetics • Creams/Lotions • Others • Dietary Supplements	• 0.1 to 2.0% • Usage pH value: 4.0 to 7.0 • Water Soluble
	Alpha-Arbutin (Active), Lecithin, Cholesterol, Water, Glycerin, Caprylhydroxamic Acid, Pentylene Glycol	• Remove flaw/dark spots of skin <i>via</i> inhibit over pigmentation process. • Promote and adjust skin tenderness. • Improve satisfaction of skin moisturizer.	• Cosmetics • Creams/Lotions • Gels • Others	• 0.1 to 1.0% • Usage pH value: 4.0 to 7.0 • Water Soluble
	Epidermal Growth Factor Peptide (Active), Lecithin, Cholesterol, Water, Glycerin, Caprylhydroxamic Acid, Pentylene Glycol	• Powerful improvement of skin wrinkle <i>via</i> stimulate keratinocytes and fibroblasts. • Promote skin collagen production like facial filler. • Recovery and intensify for facial skin elasticity/tenderness. • Activate and boost skin hydration.	• Cosmetics • Creams/Lotions • Gels • Others	• 0.05 to 1.0% • Usage pH value: 4.0 to 7.0 • Water Soluble

BIOACTIVE MATERIALS

NANOACTIVE TECHNOLOGY

PRODUCT	INCI NAME	BENEFIT	APPLICATION	DOSAGE
	Niacinamide (Active), Lecithin, Cholesterol, Water, Glycerin, Caprylhydroxamic Acid, Pentylene Glycol	• Reduce skin inflammation and healing redness of eczema/acne. • Pore minimizer for acne skin. • Superior moisturize/soothing skin.	• Cosmetics • Creams/Lotions • Gels • Others	• 3.0 to 5.0% • Usage pH value: 4.0 to 7.0 • Water Soluble
	Biotinoyl Tripeptide-1 (Active), Lecithin, Cholesterol, Water, Glycerin, Caprylhydroxamic Acid, Pentylene Glycol	• Powerful reduction for hair loss by inhibiting overexpression of androgen activity. • Enhance and stimulate for hair growth.	• Cosmetics • Creams/Lotions • Gels • Others	• 1.0 to 3.0% • Usage pH value: 4.0 to 7.0 • Water Soluble
	dL-Alpha Tocopherol Acetate (Active), Lecithin, Cholesterol, Water, Glycerin, Caprylhydroxamic Acid, Pentylene Glycol	• Superior antioxidant/scavenger. • Promote total healthier skin. • Reduce skin irritation and stimulate wound healing recovery.	• Cosmetics • Creams/Lotions • Others • Dietary Supplements	• 1.0 to 3.0% • Usage pH value: 4.0 to 7.0 • Water Soluble
	Retinyl Palmitate (Active), Lecithin, Cholesterol, Water, Glycerin, Caprylhydroxamic Acid, Pentylene Glycol	• Stronger antioxidant/scavenger. • Enhance and stimulate cell generation of skin. • Gentle healing for acne skin. • Reduce flaw of aging, wrinkle, and promote skin recovery. • Superior moisturize/soothing skin.	• Cosmetics • Creams/Lotions • Gels • Others	• 0.1 to 1.0% • Usage pH value: 4.0 to 7.0 • Water Soluble

BIOACTIVE MATERIALS

NANOACTIVE TECHNOLOGY

PRODUCT	INCI NAME	BENEFIT	APPLICATION	DOSAGE
	Lecithin, Cholesterol, dL-Alpha Tocopherol Acetate, Propylene Glycol	• Easily preparation and customize the natural liposomes in a single step for superior formulations. • Superior emulsifying agent and enhance lamellar formation like second skin layer. • Enhance actives performance. • Stabilize active ingredients and create softness sensory of base formulation.	• Self-Liposome Preparation • Emulsifying Agent • Cosmetics/Pharmaceuticals • Creams/Lotions • Cream-Gels Formula • Others • Dietary Supplements	• 0.1 to 3.0% • Usage pH value: 4.0 to 7.0 • Oil Soluble • Suitable emulsifying agent in hot and cold processes. • Material Price: 3,500 THB/Kg
	Sodium Ascorbyl Phosphate (Active), Sorbitan Monooleate, Lecithin, Cholesterol, Water, Glycerin, Caprylhydroxamic Acid, Pentylen Glycol	• Excellent ultra-flexible delivery system. • Enhance intensive permeation of active ingredients. • Potent Inhibition of aging, wrinkle, and skin reactivation of youthful.	• Cosmetics • Creams/Lotions • Gels • Others	• 1.0 to 5.0% • Usage pH value: 4.0 to 7.0 • Water Soluble • Material Price: 8,000 THB/Kg
	Astaxanthin (Active), Cetyl Palmitate, Lecithin, Cholesterol, Water, Glycerin, Caprylhydroxamic Acid, Pentylen Glycol	• Improve stabilization and encapsulation efficiency of oily actives. • Long-lastingness treatment efficacy. • Stronger antioxidant/scavenger.	• Cosmetics • Creams/Lotions • Gels • Others	• 0.1 to 1.0% • Usage pH value: 4.0 to 7.0 • Water Soluble • Material Price: 7,500 THB/Kg
	Bisotrizole (Active), Decyl Glucoside, Glycerin, Sodium Carboxymethyl Cellulose, Water, Sodium Hydroxide	• Multifunctional mechanism for sunlight protection (absorption and reflection). • Improve adhesiveness performance of sunscreen agent for all day.	• Cosmetics • Creams/Lotions • Sunscreens • Others	• 5.0 to 10.0% • Usage pH value: 4.0 to 7.0 • Water Dispersible • Material Price: 1,700 THB/Kg

BIOACTIVE MATERIALS

MICROSENSE TECHNOLOGY

PRODUCT	INCI NAME	BENEFIT	APPLICATION	DOSAGE
 CORE/SHELL MICROCAPSULES MELAMINE	Natural Lavender Oil (Fragrance), Melamine-Formaldehyde Resin, Polyvinyl Alcohol, Sorbitan oleate, Water	• Release fascinating fragrance <i>via</i> motion-activated microcapsules (hand rubbing). • Superior protect and stabilize active core materials (fragrance). • Enhance intensity stabilization of fragrance scent for all day.	• Household Chemicals • Liquid Detergents • Cleaning Chemicals • Others • Coating Chemicals • Paper Coating • Fabric Coating • Others	• 0.5 to 3.0% • Usage pH value: 3.0 to 10.0 • Water Dispersible • Material Price: 1,800 THB/Kg
 CORE/SHELL MICROCAPSULES MELAMINE	Thermochromic Pigments (Colorant), Melamine-Formaldehyde Resin, Polyvinyl Alcohol, Sorbitan oleate, Water	• Unleash fancy color changing while touch the materials or packaging (heat changing activation). • Stronger protect and stabilize active core materials (Pigments).	• Coating Chemicals • Material Coating • Paper Coating • Fabric Coating • Packaging Coating • Others	• 0.5 to 3.0% • Usage pH value: 3.0 to 10.0 • Water Dispersible • Material Price: 1,500 THB/Kg
 CORE/SHELL MICROCAPSULES BIOPOLYMERS	Natural Rose Oil (Fragrance and Active), Chitosan-Gelatin Complexes, Lactic Acid, Crosslinking Agents, Sorbitan oleate, Water	• More eco-friendly and aquatic life with biodegradable microcapsules. • Able to utilize in cosmetic applications, especially skin/body care products. • Release signature fragrance scent and active moisturizing agent in single time by hand rubbing. • Promote intensity satisfaction of fragrance-active agent for all day.	• Cosmetics • Creams/Lotions • Others	• 1.0 to 5.0% • Usage pH value: 4.0 to 7.0 • Water Dispersible • Material Price: 2,500 THB/Kg

BIOACTIVE MATERIALS

MICROSENSE TECHNOLOGY

PRODUCT	INCI NAME	BENEFIT	APPLICATION	DOSAGE
 MATRIX MICROCAPSULES SILICA SPHERES	Jasmine Essential Oil (Fragrance) and Modified Surface Silica.	• Burst the natural fragrance scents <i>via</i> moisture-triggered activation microcapsules. • Readily to mix for the powders/ waterless formulations. • Improve fragrance stabilization in formulations.	• Cosmetics • Loose/Compact Face Powders • Deodorant Powders • Bath Bombs • Waterless Formulation • Effervescent Tablets • Mouthwash Tablets	• 1.0 to 5.0% • Usage pH value: N/A • Fine Powder Form • Water Dispersible
 MATRIX MICROCAPSULES PEG-SPHERES	Natural Lemon Oil (Flavor), Polyethylene Glycol, Maltodextrin	• Able to use in a variety of applications, especially flavoring adjustment in food and beverage industries (edible microcapsules). • Enhance flavor satisfaction in formulations.	• Cosmetics • Loose/Compact Face Powders • Waterless Formulation • Foods and Beverages • Flavoring Agents • Others	• 1.0 to 5.0% • Usage pH value: N/A • Powder Form • Water Soluble
 MATRIX CAPSULES BIOPOLYMERS	Natural Acerola Cherry Extracts (Active), Agar, Sorbitan oleate, Titanium Dioxide, Perfume, Caprylhydroxamic Acid, Pentylene Glycol, Mineral Oil, Water	• Create the layer of the biopolymer films and act as the secondary skin layer for maintaining the skin hydration. • Immediately brightening face and removal dark spots. • More eco-friendly and aquatic life with biopolymer soft-capsules. • Highly tolerance in surfactant base formulation.	• Cosmetics • Creams/Lotions • Gels • Others	• 1.0 to 3.0% • Usage pH value: 4.0 to 7.0 • Beads/Pellets Form • Water Dispersible

PRODUCT

INCI NAME

BENEFIT

APPLICATION

DOSAGE

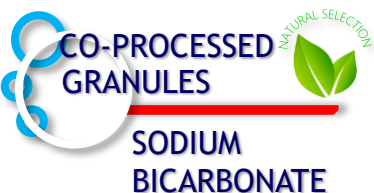


Fumaric Acid, Polyethylene Glycol,
Glucose, Polysorbate 80

- More readily to use in the mixing step, especially direct compression without complicated tablet production.
- Superior multifunctional excipients without addition of disintegrants, binders, and lubricant.
- Less hygroscopic property and longer shelf-life extension in effervescent tablets.
- Less time in tablet disintegration and generate highly bubbling amounts.
- Cost-effectiveness in tablet production.

- Pharmaceuticals/
Dietary Supplements
 - Effervescent Tablets
 - Flavoring Agent
- Cosmetics
 - Bath Bombs
 - Waterless Formulation
 - Mouthwash Tablets
 - Toothpaste Tablets
 - Denture Cleaning Tablets

- 30.0 to 40.0%
- Usage pH value: 5.0 to 7.0
- Water Soluble



Sodium Bicarbonate and Sodium Carbonate

- Powerful improvement of effervescent tablet stabilization *via* generate desiccant layer on particles (surface-modification technology).
- Able to maintain effervescent function at 50°C for a month.
- Stronger increase hardness of tablets.
- Cost-effectiveness in tablet production.
- More selective packaging options.

- Pharmaceuticals/
Dietary Supplements
 - Effervescent Tablets
- Cosmetics
 - Bath Bombs
 - Waterless Formulation
 - Mouthwash Tablets
 - Toothpaste Tablets
 - Denture Cleaning Tablets

- 30.0 to 40.0%
- Usage pH value: 3.0 to 10.0
- Water Soluble



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