



**UMANG**<sup>®</sup>  
*encapsulation solutions*

# ENCAPSULATED INGREDIENTS FOR NUTRACEUTICAL

V.25\_1





# INTRODUCTION

At Umang Encapsulation Solutions, a proud subsidiary of Umang Global Group Pvt. Ltd., we specialize in manufacturing advanced encapsulated ingredients designed to enhance Nutraceutical products. Our solutions cater to critical health segments such as **Body Nourishment, Gut Care, Mental Wellbeing, Weight Management, Immunity Boosting, and Men & Women's Health.**

By employing cutting-edge encapsulation technology, we ensure the stability, bioavailability, and controlled release of essential nutrients. Our diverse product range includes **encapsulated Vitamins, Carotenoids, Amino Acids, Minerals, Botanicals, Digestive Enzymes,** as well as our innovative encapsulation formats like **Liposules, Masksules, Hydrosules, and Encapsules.**

Umang Encapsulation Solutions is dedicated to empowering your nutraceutical formulations with scientifically backed, high-quality ingredients that deliver enhanced performance, helping you create better, more effective health products.

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# What We Do?

We are the manufacturer and supplier of a diverse range of encapsulated ingredients. We excel in crafting customised solutions tailored to your unique specifications, helping you set new standards with advanced solutions.

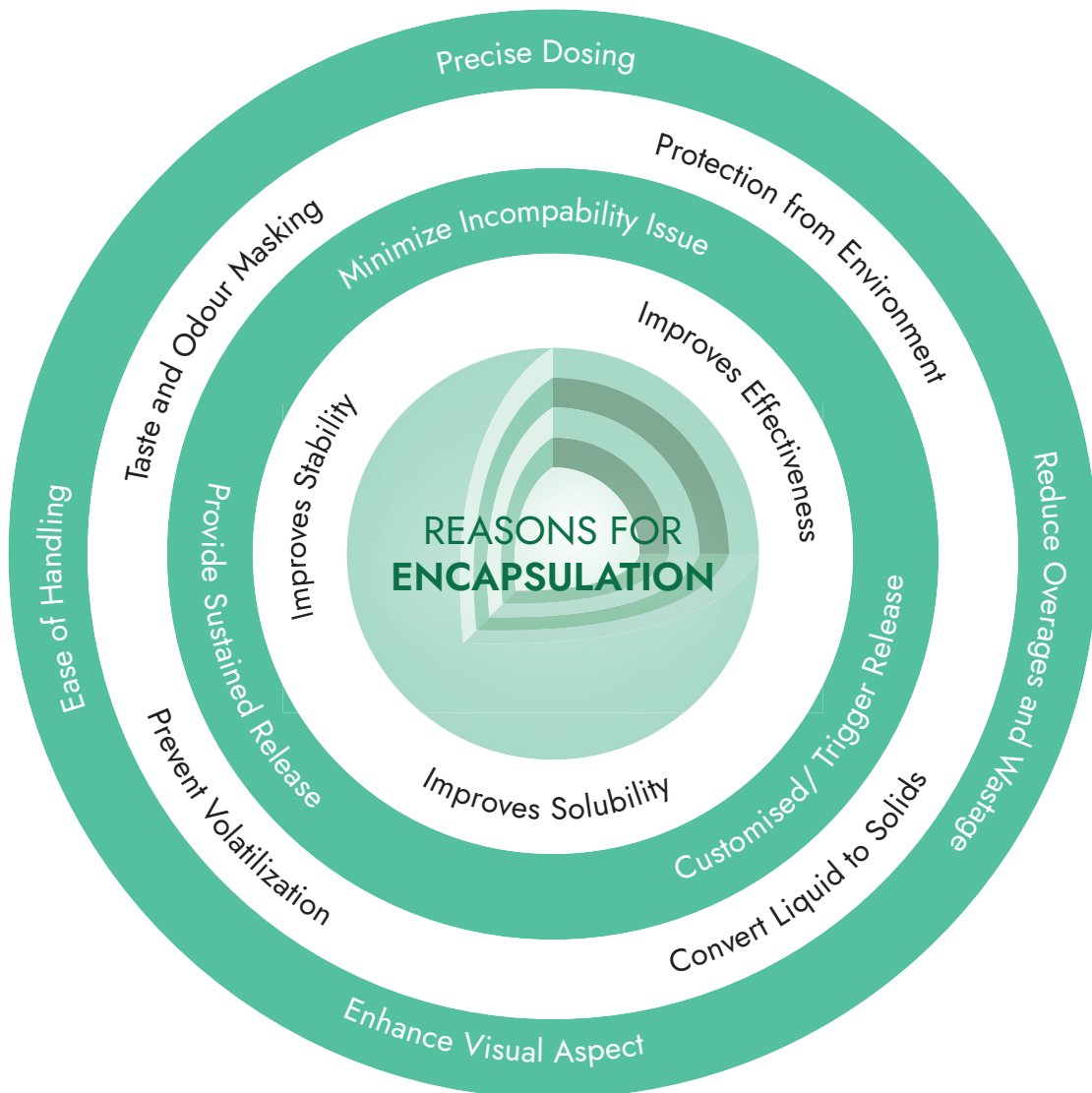
Our cutting-edge encapsulation technology shields your actives from environmental factors (heat, moisture, pH, etc.), ensuring they reach their maximum potential in the targeted area.

# What is Encapsulation?

Encapsulation simply means the process of enclosing an active material in a protective layer or shell.



# Why Encapsulation?



# Our Offering

## Encapsulated Beadlets/Pellets: (100 micron - 5000 Micron)

Note: Dose of active, Beadlet size, colour and release pattern can be customised.

## Immediate Release Beadlets/Pellets:

These pellets are designed to dissolve quickly once consumed.

## Sustained-Release Beadlets/Pellets:

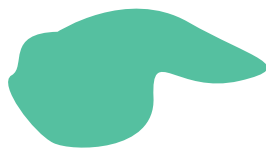
Our sustained release pellets provides slow release of the active ingredient over time.

## Enteric Coated Beadlets/Pellets:

These pellets feature a special coating that protects them from the stomach's acidic environment. The coating dissolves in the alkaline pH of the intestines, ensuring targeted delivery of the active ingredient.

## Encapsulated Powder Category: (<100 Microns)

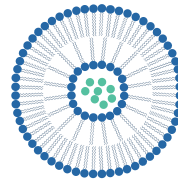
**Liposules:** Our Liposules have a protective lipid coating that shields the active ingredient from moisture. This guarantees the stability and effectiveness of the product.



Actives

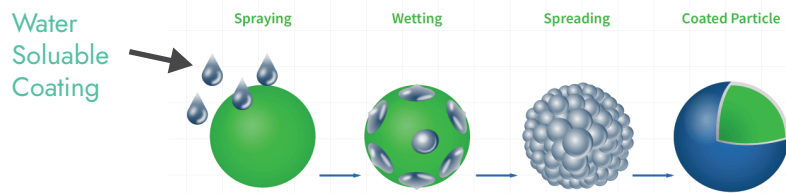


Micronized Actives

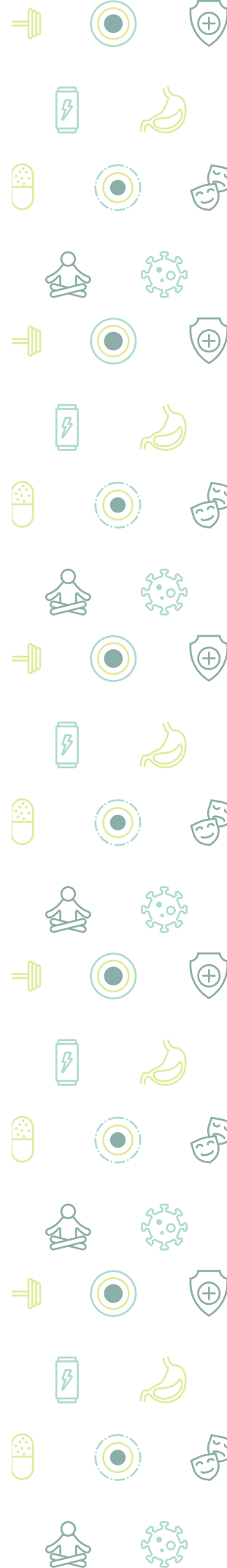
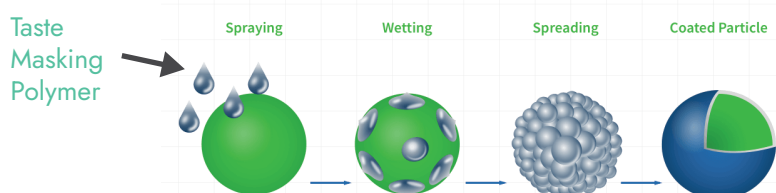


Encapsulated in Liposules

**Hydrosules:** Our Hydrosules have a protective water-soluble coating that shields the active ingredient from External Environmental Factors. This guarantees the stability and effectiveness of the product.



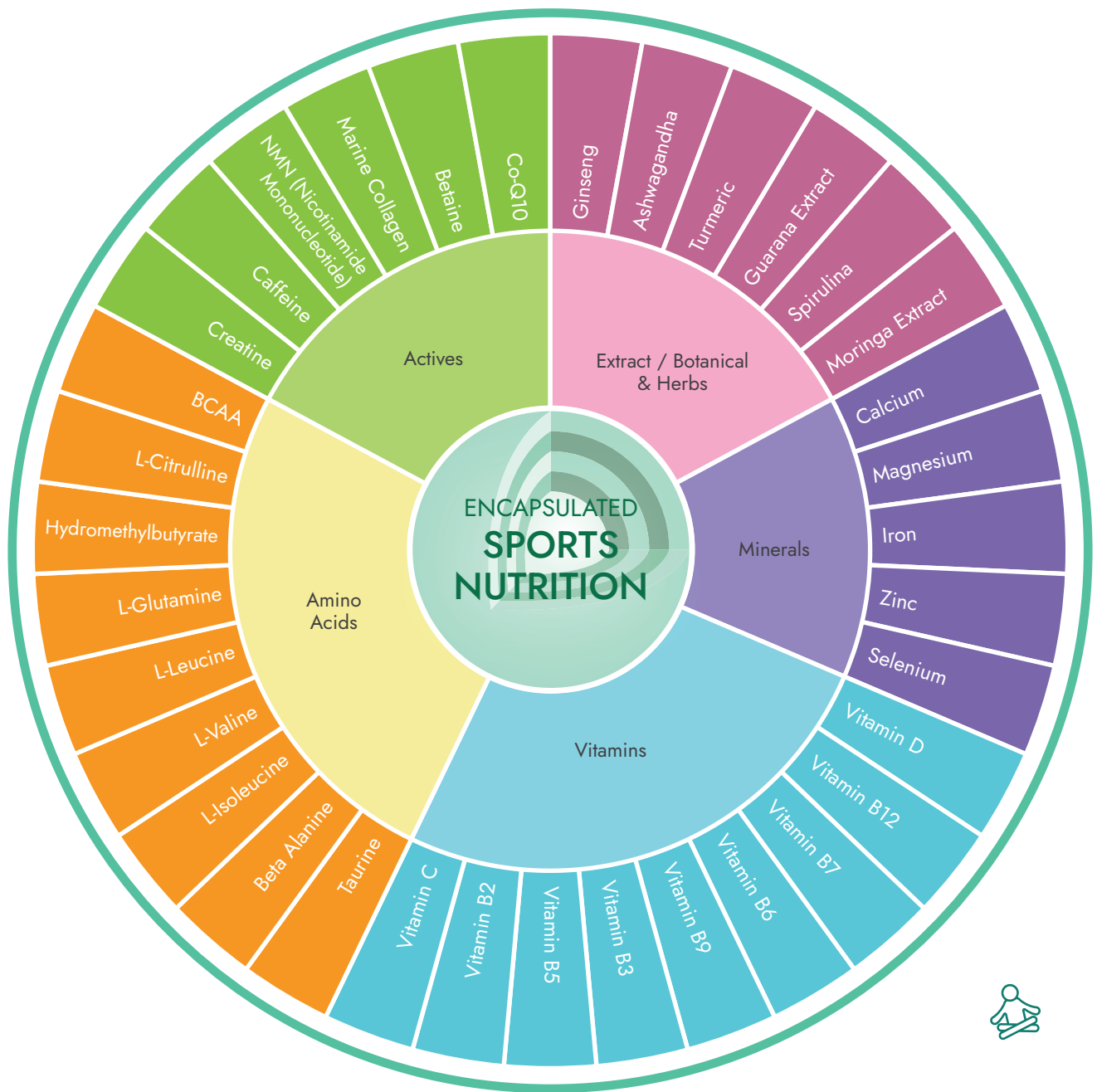
**Masksules:** Our masksules have a unique polymer coating that hides the taste of the active ingredient. This helps eliminate any unpleasant aftertaste.





# SPORTS NUTRITION





# SPORTS NUTRITION

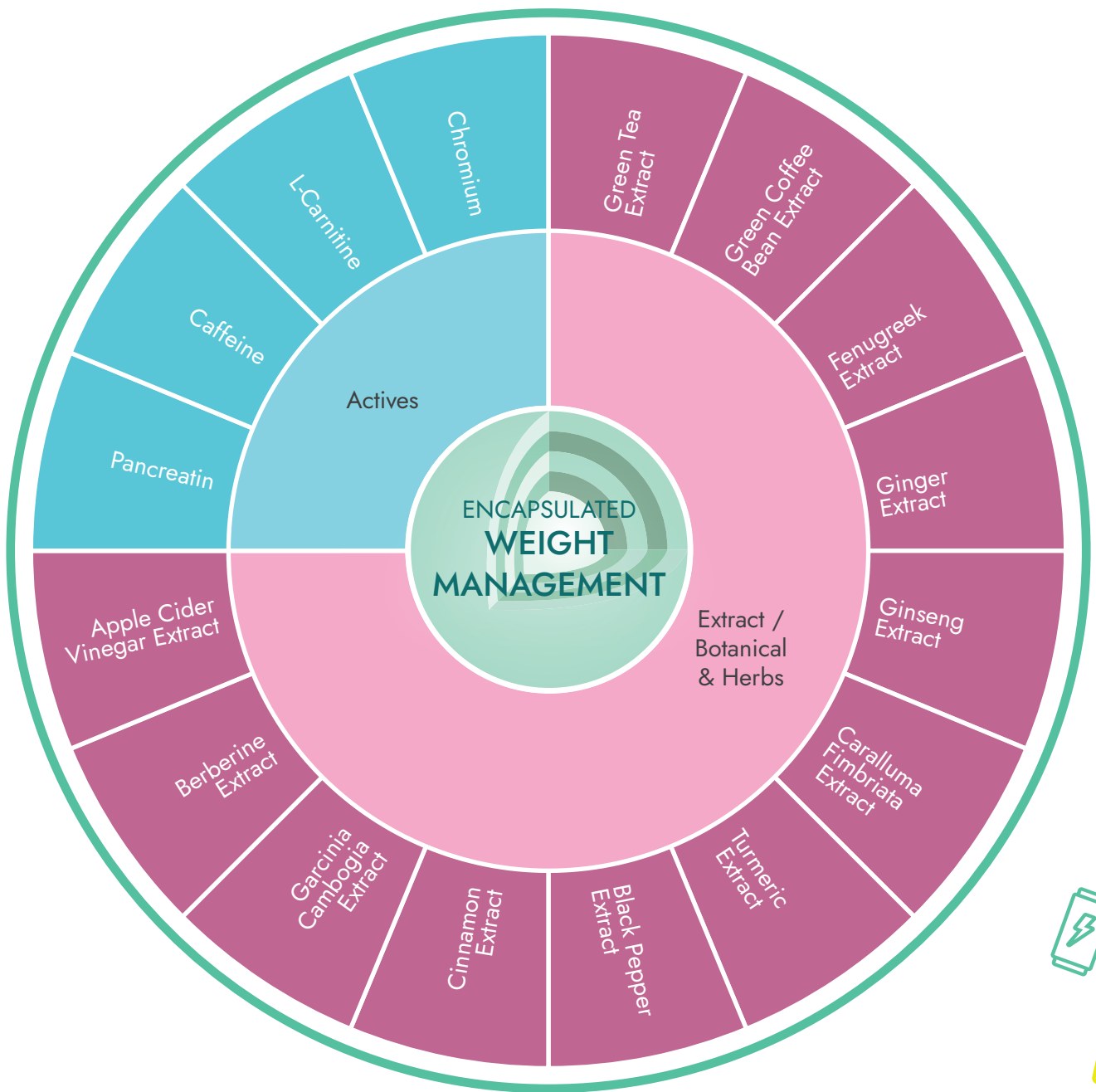


Optimize the delivery of your actives with our sustained-release solution, providing a gradual release of nutrients over an extended period. This ensures a steady supply of nutrients to the body, proving particularly beneficial during prolonged periods of intense physical activity. It allows athletes to maintain energy levels and performance without needing constant nutrient consumption.

Moreover, our encapsulation solution effectively masks bitter taste, enhancing the overall user experience. Additionally, the conversion of liquids into beadlets and powder ensures ease of handling.



# WEIGHT MANAGEMENT



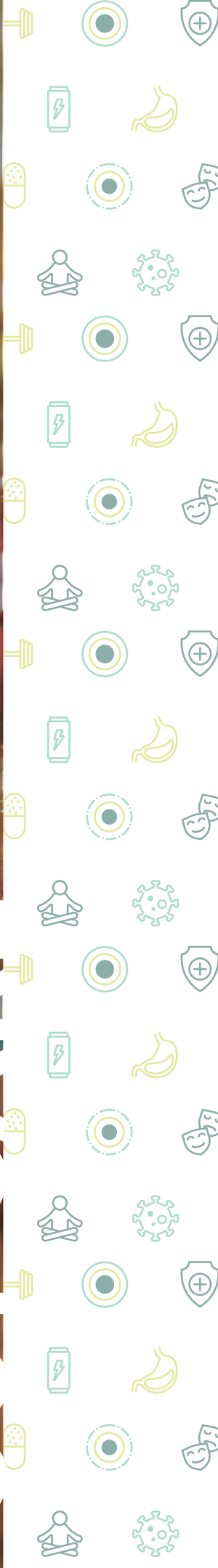
# WEIGHT MANAGEMENT

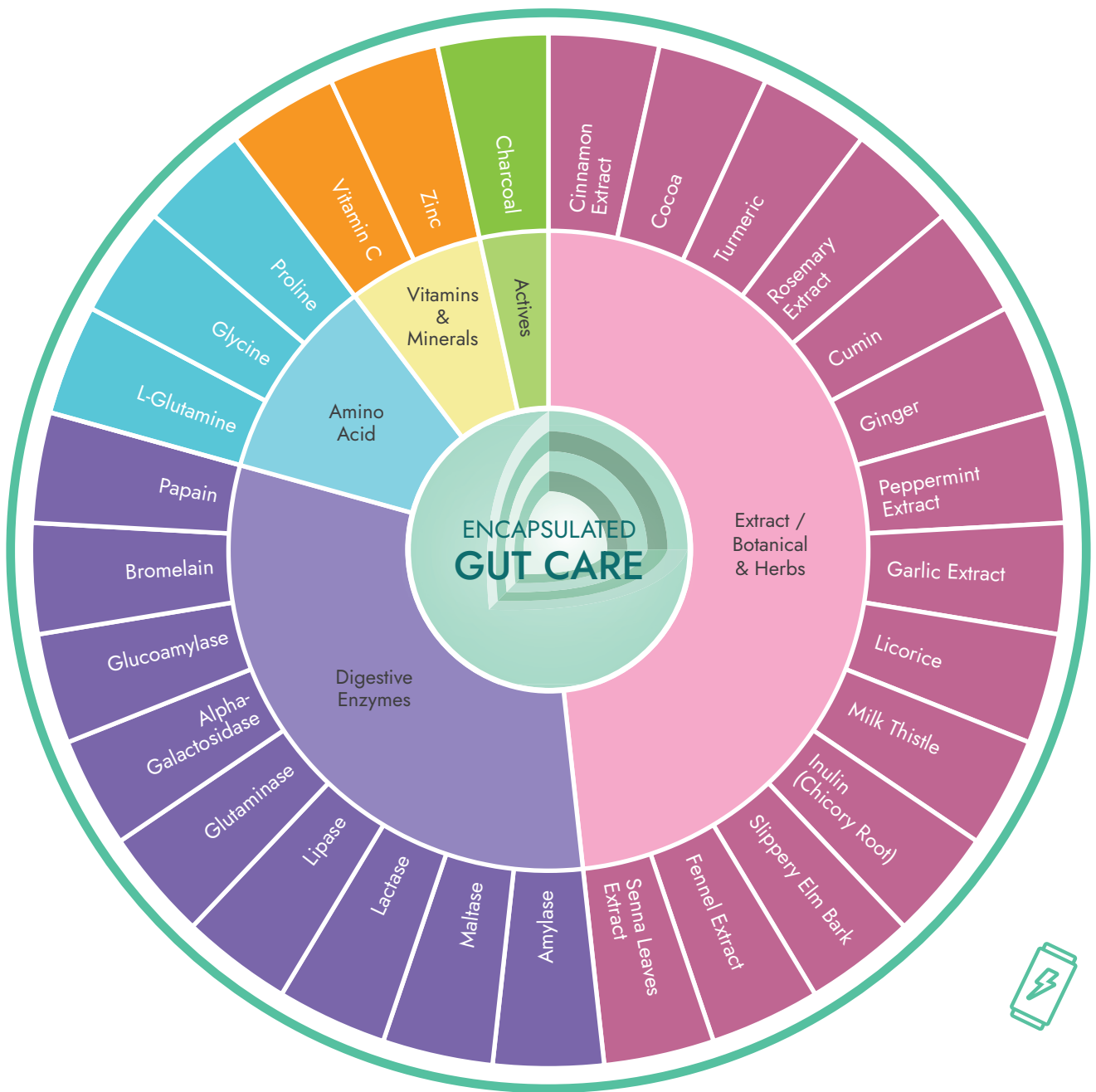


Our innovative encapsulation technique enhances stability, masks bitter taste, and incorporates polymer coating for sustained release. Experience a gradual and steady nutrient supply over time, optimizing effectiveness and improving overall Consumer satisfaction.

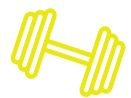



# GUT CARE





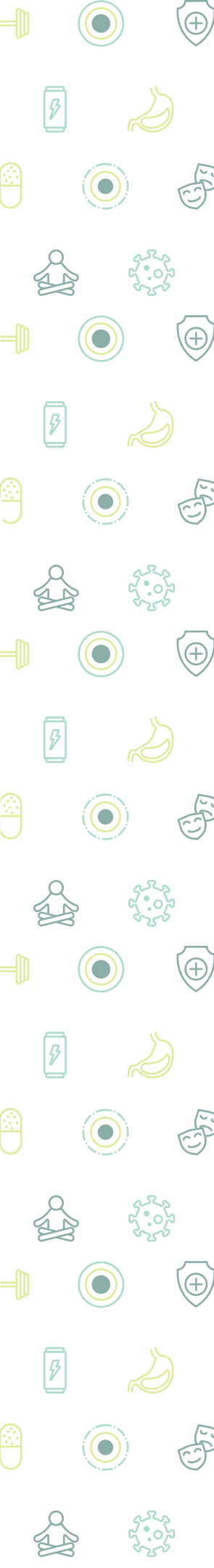
# GUT CARE

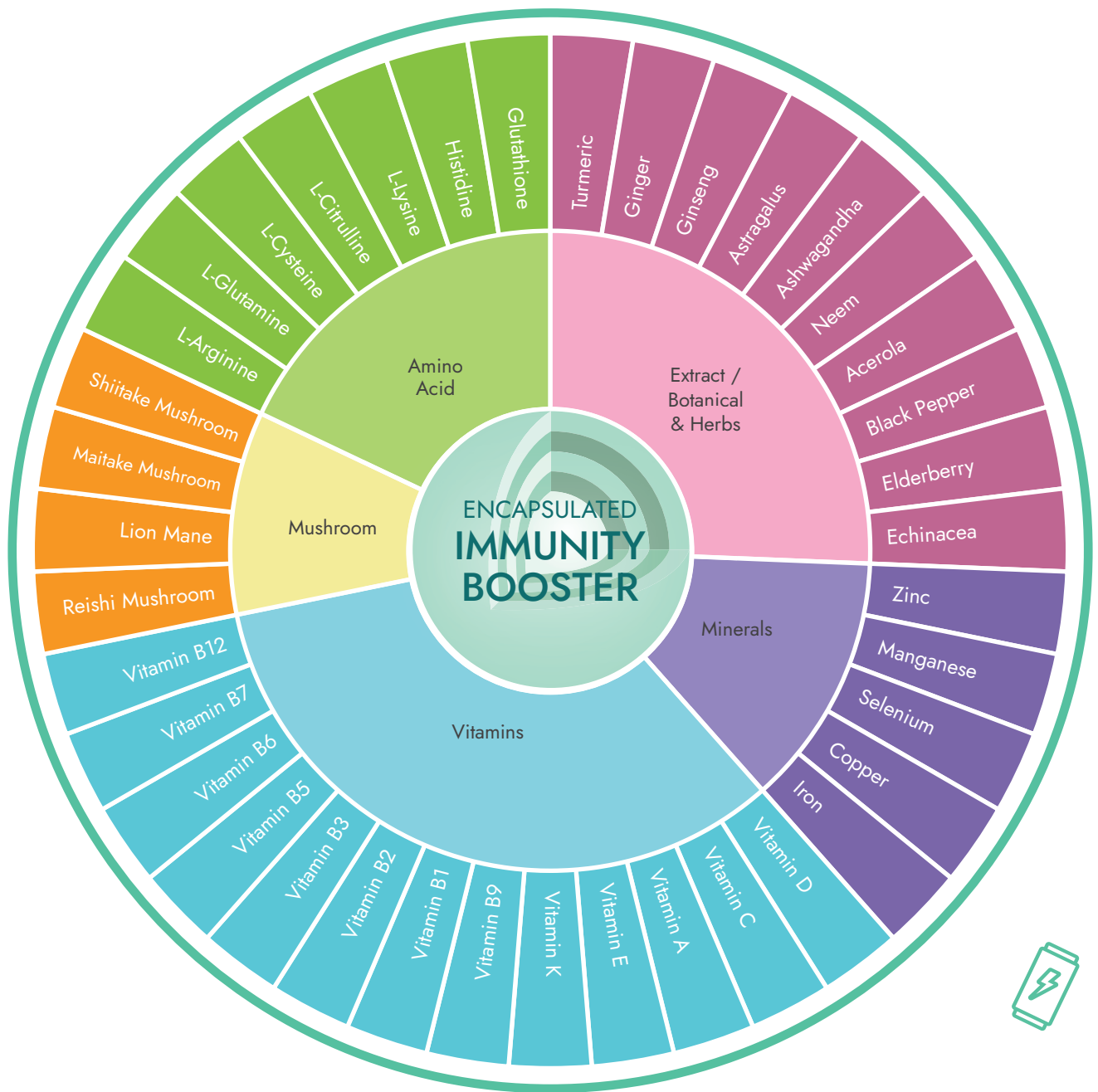


- 
 Protect your active ingredients with an enteric coating, shielding against stomach acid to ensure controlled release in the small intestine. This targeted approach enhances the effectiveness of your active ingredients for maximum digestive benefits.



# IMMUNITY BOOSTER





# IMMUNITY BOOSTER

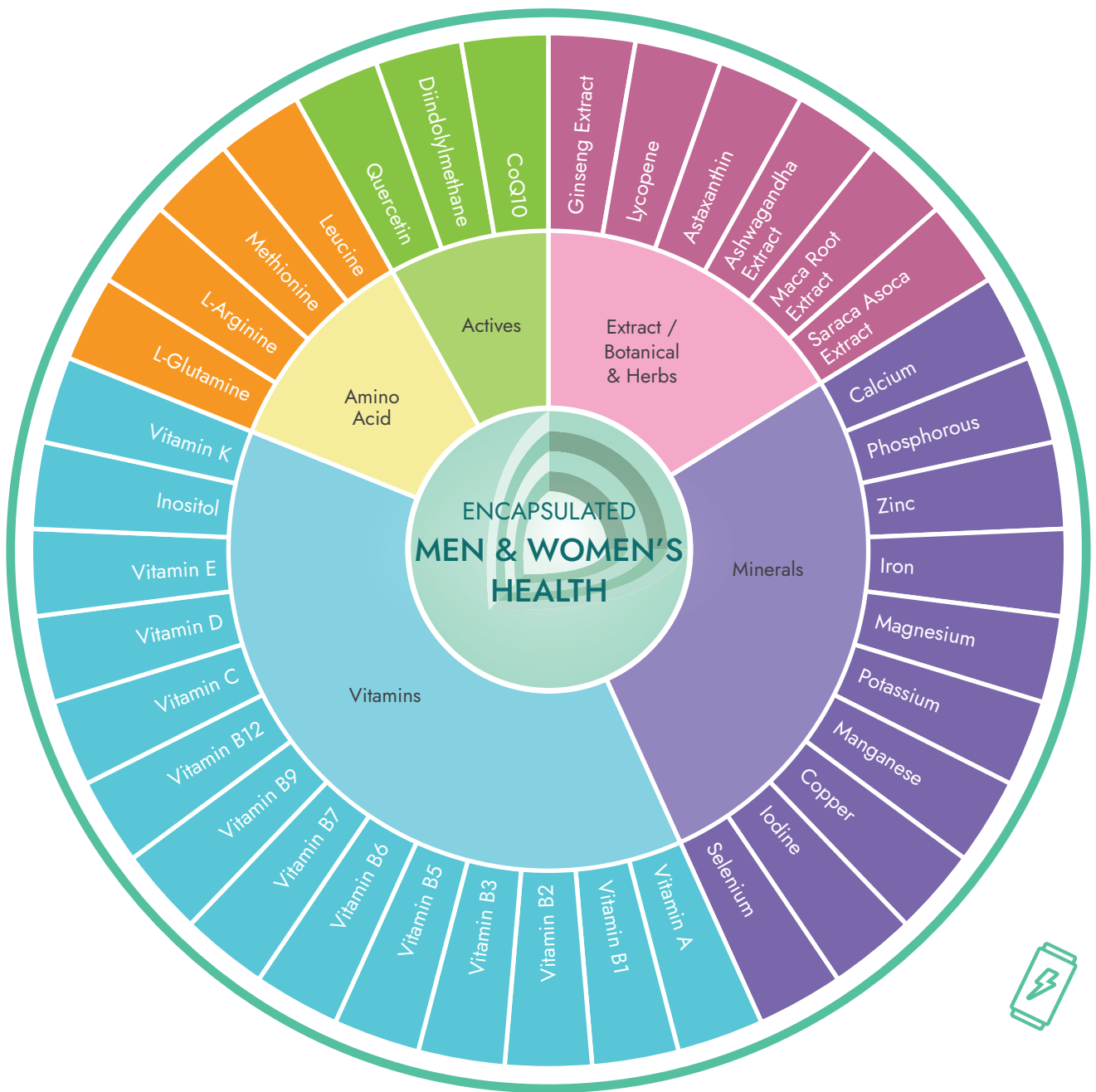


Our Encapsulation technology allows individual ingredients to be wrapped in a protective layer. This process can improve the taste of immunity boosters by masking unpleasant taste and making them more appealing. Additionally, the protective layer shields sensitive ingredients from environmental factors, maintaining their effectiveness throughout their shelf life.



# MEN & WOMEN'S HEALTH





# MEN & WOMEN'S HEALTH

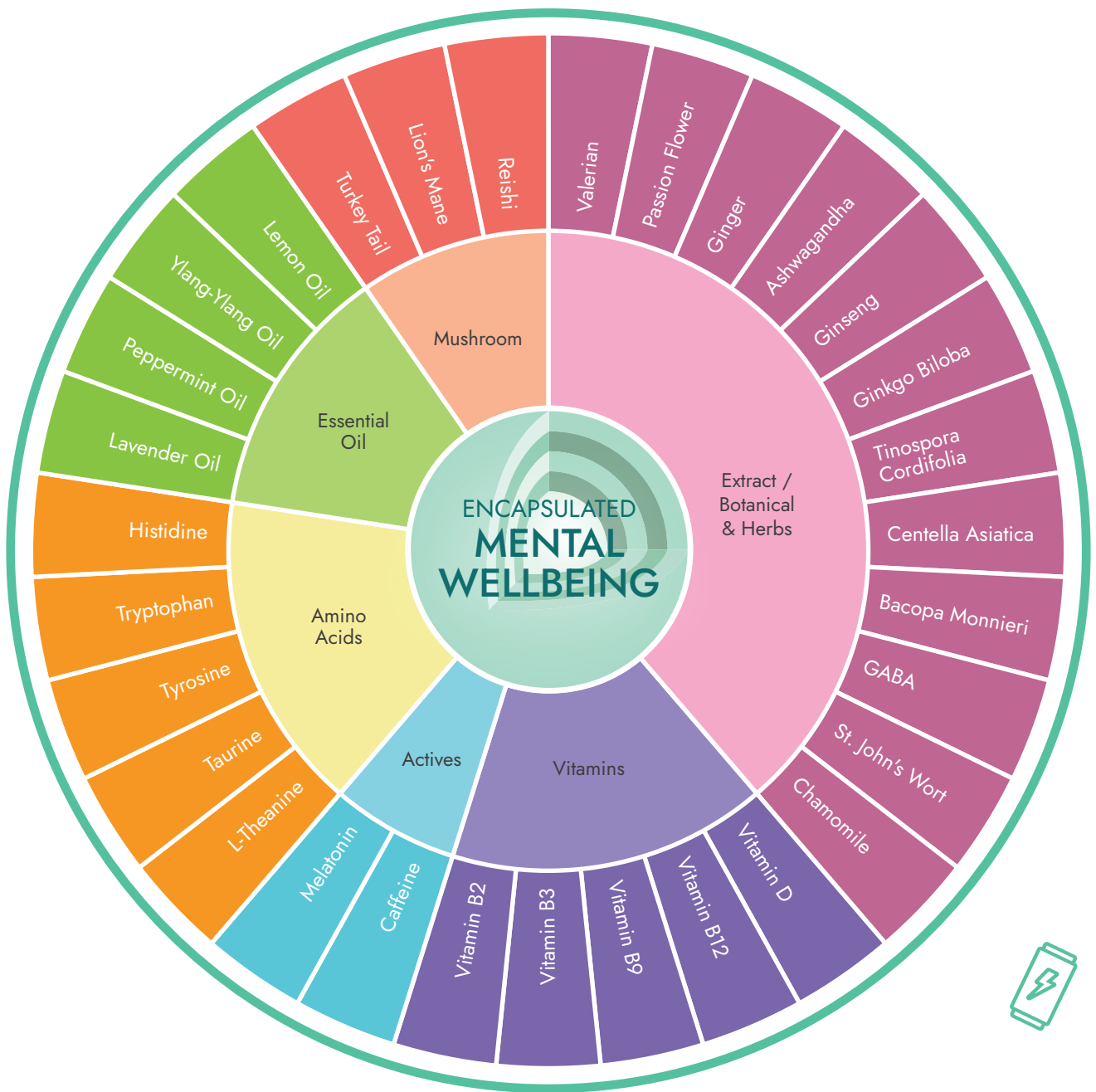


Our encapsulated supplements prevent incompatibility and ensure consistent performance in your finished products. We offer customized dose designs based on your unique formulation or product, allowing for precise and tailored support.



# MENTAL WELLBEING





# MENTAL WELLBEING

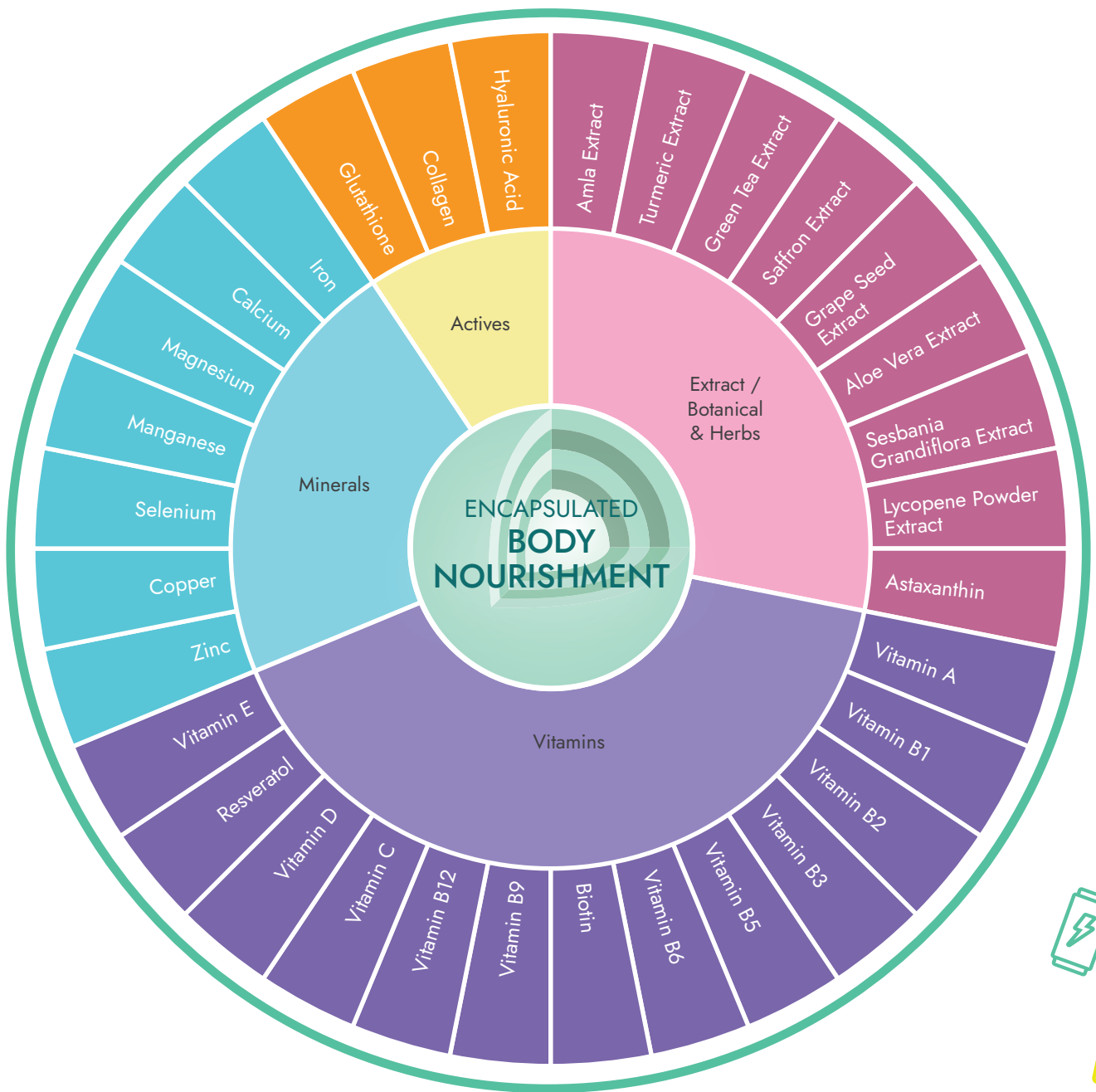


With the help of an encapsulated mental well-being supplement, You can reduce volatility and mask the taste, making the supplement easier to handle for a more reliable effect. With our encapsulated supplement, you can easily incorporate beadlet into your finished products, making it a differentiator in the market.



# BODY NOURISHMENT



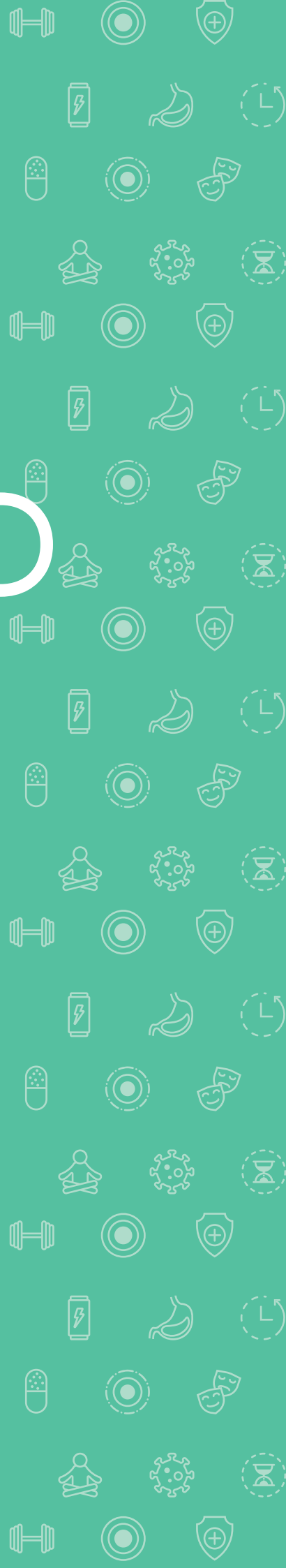


# BODY NOURISHMENT



- Our innovative encapsulation technique enhances stability, masks bitter taste, and incorporates polymer coating for sustained release experience a gradual and steady nutrient supply over time, optimizing effectiveness and improving overall user satisfaction.

# OUR MOST REQUESTED PRODUCTS

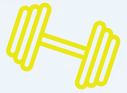


# Available Forms



## Powder

- Liposules: Lipid Encapsulated Powder.
- Hyrdosules: Water Soluble Polymer Encapsulated Powder.
- Masksules: Taste Masked Powder.



## Beadlets

- Taste Masked Granules / Beadlets.
- Sustained Release Granules / Beadlets.
- Effervescent Granules / Beadlets.
- IR granules / Beadlets.
- Enteric Coated Beadlets.
- Floating Beadlets.

**“We Provide Customization Based on Size, Color, Release & Actives.”**

# Vitaspheres<sup>®</sup> (Vitamins)

Encapsulated vitamins in powder/beadlets form available in various SR/EC release form.



Product Image	Item Description	Strength
	Encapsulated Vitamin A Beadlet/Powder	5% ,10%
	Encapsulated Vitamin D3 Beadlet/Powder	1%,2%
	Encapsulated Vitamin E Beadlet/Powder	25%,50%
	Encapsulated Vitamin C Beadlet/Powder	60%,90%
	Encapsulated Vitamin B1 Beadlet/Powder	25%,50%
	Encapsulated Vitamin B2 Beadlet/Powder	10%,25%
	Encapsulated Vitamin B3 Beadlet/Powder	1%,5%,10%
	Encapsulated Vitamin B5 Beadlet/Powder	5%,25%
	Encapsulated Vitamin B6 Beadlet/Powder	10%,25%
	Encapsulated Vitamin B7 Beadlet/Powder	10%,25%
	Encapsulated Vitamin B9 Beadlet/Powder	10%,25%
	Encapsulated Vitamin B12 Beadlet/Powder	1%,2%

# Actispheres<sup>™</sup> (Actives)





Encapsulated active ingredients in powder/beadlets form available in various SR/EC release forms

Product Image	Item Description	Strength
	Encapsulated Caffeine Beadlet/Powder	85%
	Encapsulated Melatonin Beadlet/Powder	1%,4%
	Encapsulated NADH Beadlet/Powder	10%,20%
	Encapsulated NMN Beadlet/Powder	10%

# Carotespheres (Carotenoids)

Encapsulated carotenoids in powder/beadlets form available in various SR/EC release form.



Product Image	Item Description	Strength
	Encapsulated Lutein Beadlet/Powder	10%,25%
	Encapsulated Lycopene Beadlet/Powder	5%,10%
	Encapsulated Zeaxanthin Beadlet/Powder	2.5%,5%
	Encapsulated Astaxanthin Beadlet/Powder	1%,2%,5%
	Encapsulated CoQ10 Beadlet/Powder	10%,15%
	Encapsulated Beta Carotene Beadlet/Powder	2.5%,5%
	Encapsulated Mixed Carotene Beadlet/Powder	10%,25%

# Aminospheres<sup>®</sup> (Amino Acids)














Encapsulated amino acids in powder/beadlets form available in various SR/EC release form.

Product Image	Item Description	Strength
	Encapsulated L-Tryptophan Beadlet/Powder	50%
	Encapsulated L-Valine Beadlet/Powder	50%
	Encapsulated Phenylalanine Beadlet/Powder	50%
	Encapsulated Histidine Beadlet/Powder	50%
	Encapsulated L-Threonine Beadlet/Powder	25%
	Encapsulated L-Glutamine Beadlet/Powder	50%
	Encapsulated L-Leucine Beadlet/Powder	25%
	Encapsulated L-Arginine Beadlet/Powder	25%
	Encapsulated Branched Chain Amino Acids Beadlet/Powder	45%

# Minospheres® (Minerals)

Encapsulated minerals in powder/beadlets form available in various SR/EC release form.



Product Image	Item Description	Strength
	Encapsulated Copper Sulfate Beadlet/Powder	20%
	Encapsulated Potassium Chloride Beadlet/Powder	50%
	Encapsulated Ferrous Ascorbate Beadlet/Powder	10%
	Encapsulated Selenium Beadlet/Powder	1%
	Encapsulated Dried Ferrous Sulphate Beadlet/Powder	10%
	Encapsulated Iodine Beadlet/Powder	0.1%,0.25%
	Encapsulated Boron Beadlet/Powder	5%
	Encapsulated Zinc Beadlet/Powder	25%
	Encapsulated Calcium Beadlet/Powder	50%
	Encapsulated Magnesium Beadlet/Powder	20%,30%
	Encapsulated Calcium Carbonate Beadlet/Powder	50%,75%
	Encapsulated Ferrous Bisglycinate Beadlet/Powder	15%
	Encapsulated Copper Glycinate Beadlet/Powder	5%

# Botanispheres® (Herbs)

















Encapsulated herbal extract in powder/beadlets form available in various SR/EC release form.

Product Image	Item Description	Strength
	Encapsulated Ashwagandha (Withania Somnifera) Beadlet/Powder	65%
	Encapsulated Curcumin (Curcuma Longa) Beadlet/Powder	65%
	Encapsulated Capsicum Extract Beadlet/Powder	1%,2%
	Encapsulated Boswellia Serrata Beadlet/Powder	10%,25%
	Encapsulated Shilajit Beadlet/Powder	10%,25%
	Encapsulated Fenugreek Beadlet/Powder	30%,50%
	Encapsulated Garlic Beadlet/Powder	20%,50%
	Encapsulated Saffron Beadlet/Powder	10%,25%
	Encapsulated Ginger Beadlet/Powder	20%,50%
	Encapsulated St. John's Wort Beadlet/Powder	10%,25%
	Encapsulated Echinacea Beadlet/Powder	10%,20%
	Encapsulated Cranberry Beadlet/Powder	5%,10%
	Encapsulated Brahmi Beadlet/Powder	10%,20%
	Encapsulated Hibiscus Beadlet/Powder	15%,25%
	Encapsulated Amla Beadlet/Powder	30%,50%
	Encapsulated Aloe Vera Beadlet/Powder	10%,25%
	Encapsulated Red Clover Beadlet/Powder	25%,50%
	Encapsulated Green Tea Beadlet/Powder	50%,20%
	Encapsulated Spirulina Beadlet/Powder	5%,15%
	Encapsulated Rhodiola Rosea Beadlet/Powder	30%,50%

# Botanispheres® (Herbs)



Encapsulated herbal extract in powder/beadlets form available in various SR/EC release form.

Product Image	Item Description	Strength
	Encapsulated Black Pepper Beadlet/Powder	25%,50%
	Encapsulated Yohimbe HCL Beadlet/Powder	8%,15%
	Encapsulated Lemon Balm Beadlet/Powder	20%,40%
	Encapsulated Dandelion Beadlet/Powder	15%,25%
	Encapsulated Mucuna Pruriens Beadlet/Powder	20%,40%
	Encapsulated Chamomile Extract Beadlet/Powder	35%,50%
	Encapsulated White Willow Beadlet/Powder	15%,25%
	Encapsulated Bitter Orange Fruit Beadlet/Powder	20%,40%
	Encapsulated Rosemary Beadlet/Powder	10%,25%
	Encapsulated Grape Seed Extract Beadlet/Powder	50%
	Encapsulated Green Coffee Extract Beadlet/Powder	50%
	Encapsulated Ylang Ylang Beadlet/Powder	15%,25%
	Encapsulated Valerian Beadlet/Powder	12.5%,25%
	Encapsulated Asian Ginseng Beadlet/Powder	25%,50%

# Mushroom












Encapsulated mushroom extract in powder/beadlets form available in various SR/EC release form.

Product Image	Item Description	Strength
	Encapsulated Cordyceps Mushroom Beadlet/Powder	-
	Encapsulated Horse Tail Mushroom Beadlet/Powder	-
	Encapsulated Reishi Mushroom Beadlet/Powder	-
	Encapsulated Lion's Mane Beadlet/Powder	-
	Encapsulated Maitake Mushroom Beadlet/Powder	-
	Encapsulated Shiitake Mushroom Beadlet/Powder	-
	Encapsulated Turkey Tail Beadlet/Powder	-

# Digestive Enzymes

Encapsulated digestive enzymes in powder/beadlets form available in various SR/EC release forms.

Product Image	Item Description	Strength
	Encapsulated Amylase Beadlet/Powder	20%
	Encapsulated Maltase Beadlet/Powder	50%
	Encapsulated Lactase Beadlet/Powder	10%
	Encapsulated Lipase Beadlet/Powder	1%
	Encapsulated Glutaminase Beadlet/Powder	10%
	Encapsulated Pancreatin Beadlet/Powder	0.1%,0.25%
	Encapsulated Glucoamylase Beadlet/Powder	5%
	Encapsulated Bromelain Beadlet/Powder	25%
	Encapsulated Papain Beadlet/Powder	50%

# Essential Oils

Encapsulated essential oils in powder/beadlets form available in various SR/EC release forms



Product Image	Item Description	Strength
	Encapsulated Peppermint Oil Beadlet/Powder	20%
	Encapsulated Lavender Oil Beadlet/Powder	20%
	Encapsulated Lemon Oil Beadlet/Powder	20%
	Encapsulated Eucalyptus Oil Beadlet/Powder	20%
	Encapsulated Basil Oil Beadlet/Powder	20%
	Encapsulated Ylang Ylang Oil Beadlet/Powder	20%
	Encapsulated Cinnamon Bark Oil Beadlet/Powder	20%
	Encapsulated Clove Oil Beadlet/Powder	20%
	Encapsulated Rosemary Oil Beadlet/Powder	20%
	Encapsulated Grapefruit Oil Beadlet/Powder	20%

## Encapules<sup>®</sup>






These are Dry, free-flowing powders encapsulated with heat-resistant polymers, ideal for protecting heat-sensitive actives.

Product Image	Item Description	Strength
	Heat Resistant Polymer Encapsulated Menthol Powder	30%
	Heat Resistant Polymer Encapsulated Menthol Powder	40%
	Heat Resistant Polymer Encapsulated Lavender Oil Powder	20%
	Heat Resistant Polymer Encapsulated Chamomile Oil Powder	20%
	Heat Resistant Polymer Encapsulated Basil Oil Powder	20%

# Liposules®







These are dry, free-flowing powders of actives encapsulated within lipid shell for improved stability and absorption.

Product Image	Item Description	Strength
	Lipid Encapsulated Ashwagandha Powder	70%
	Lipid Encapsulated Curcumin Powder	40%
	Lipid Encapsulated Ferrous Bisglycinate Powder	40%
	Lipid Encapsulated Vitamin B Complex Powder	20%
	Lipid Encapsulated Vitamin C Powder	40 %





# Masksules®

These are Dry, free-flowing powders encapsulated with taste-masking polymers, effectively masking the bitter taste of actives.

Product Image	Item Description	Strength
	Taste Masked Panax Ginseng Powder	25% / 35%
	Taste Masked Caffeine Powder	50%
	Taste Masked Selenium Powder	20%
	Taste Masked Piperine Powder	10%

# Hydrosules®

These are Dry, free-flowing powders encapsulated with water-soluble polymers ensuring stability and absorption of active ingredients

Product Image	Item Description	Strength
	Water-soluble polymer Encapsulated Vitamin B12 Powder	1%
	Water-soluble polymer Encapsulated Copper Bisglycinate Powder	30%
	Water-soluble polymer Encapsulated Riboflavin Powder	20%
	Water-soluble polymer Encapsulated Vitamin C Powder	25%

# Applications



Capsules



Liquid Filled Capsules



Sachet

# Testing



HPLC



UV



GC



Dissolution

# Applications



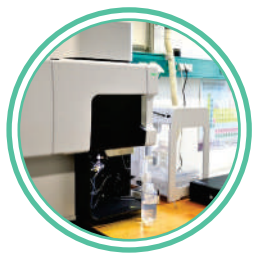
Beverages



Tea



Gummies



ICP



Tap Density



Stability Study



Loss on Drying

# Applications



Chewing Gum



MUPS for Tablet



Protein Powder

# Certifications



# Applications



Water Soluble Sachet



Food Fortification



Granules for Tablet

# Technology



Spray Dryer/  
Encapsulator



Die Roller



Extruder/  
Spheronizer



Hot Melt  
Extruder

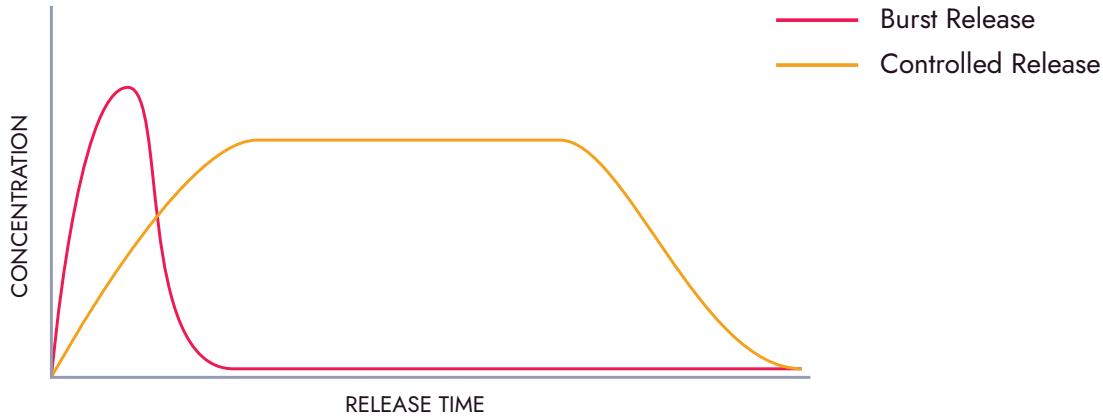


Fluid Bed  
Dryer

# Our Customization Expertise

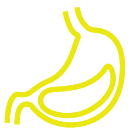
We offers a variety of colors, size, release and additives, allowing you to create personalized products that match your clients' style preferences. This flexibility empowers you to provide unique and visually appealing solutions.

## RELEASE : Burst Release & Controlled Release

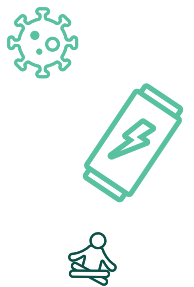
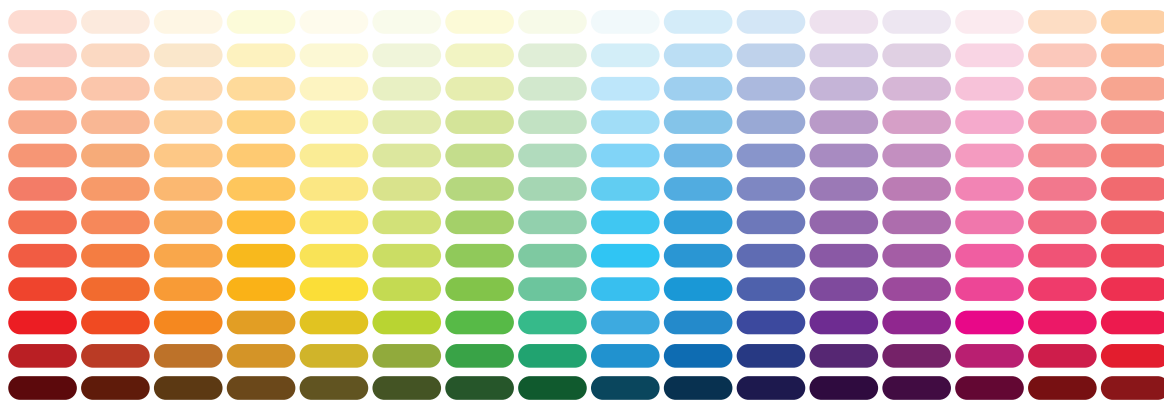


NOTE: Customize your beads/spheres with tailored active release options and adjustable release times to meet your specific needs.

## ADDITIVE : Modifications as Per Individual Requirements

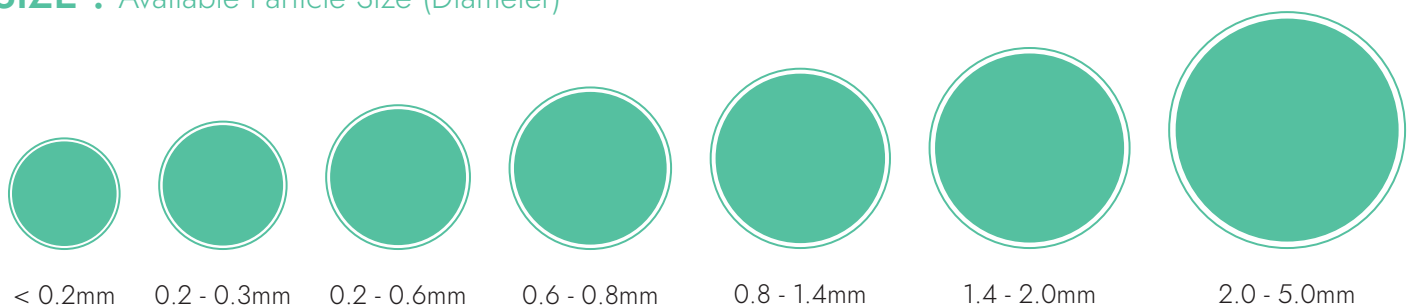


## COLOR : Available in Natural & Synthetic Colors



NOTE: Customize your beads and spheres with our wide range of colors or provide your own for a tailored solution to meet your exact requirements.

## SIZE : Available Particle Size (Diameter)



# Your Idea Our Solution...

Share your ideas, and we'll craft the perfect solution tailored to your needs. Together, we turn your customization goals into reality, ensuring seamless and effective outcomes.

Do you need dissolving beads or exfoliators?

Do you need color changing beads?

water content & viscosity of your product

Do You need odour to be masked?

Ph of your product

Liposomal powder/beadlet needed?

Active Percentage



Bulk density?

Any special packaging needed?

Any particular condition to be noted for active.

What is the end application of your product in Personal Care (Eg. Face, Body & Oral)?

What is the end application of your product in Home Care (Eg. Talcum & Detergent)?

Whether the active needed and what percentage?

Do you need luster pigment (Metallic shade)?

# Our Global Reach

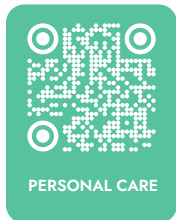


**Umang Global Group Pvt. Ltd.**  
(Engineering)

**Umang Encapsulation Solutions Pvt. Ltd.**  
(Pharma, Nutraceuticals & Food)

**Umang Particle Science Pvt. Ltd.**  
(Personal Care)

**Lab Ultima Process Technologies Pvt. Ltd.**  
(Spray Drying)



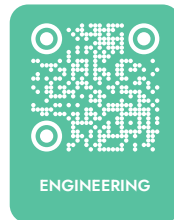
PERSONAL CARE



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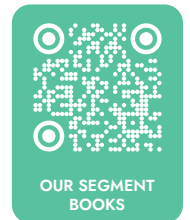
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**Head Office Address:**

Unit 1, Unit 2, 2<sup>nd</sup> Floor, Vicino (Mega Mall), New Link Road,  
Oshiwara, Andheri (West), Mumbai, Maharashtra 400102.

**UK Office Address:**

Bramleys, Bath Road, Sturminster Newton, Dorset,  
DT10 1eb, United Kingdom.

Contact us on:

+91-95183 49129

[info@umangglobal.com](mailto:info@umangglobal.com)

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