

# Meteoric<sup>®</sup>

— Biopharmaceuticals —

ENZYMES • PROBIOTICS • BIOACTIVES  
FORMULATIONS • ANIMAL HEALTHCARE



An Integrated Biopharma Company

INDIA • USA • VIETNAM

#innovationthroughdiscovery<sup>®</sup>

Meteoric Biopharmaceuticals boast global headquarter in India, with strategic presence in the USA and Vietnam. Our advanced R&D centers, comprehensive regulatory accreditations, and robust portfolio of patents and trademarks reflect our dedication to pioneering research and quality

#innovationthroughdiscovery®

## INDUSTRY REACH



Bio Pharmaceutical



Leather



Food and Beverages



Effluent



Biocatalyst



Textile



Animal Feed



Detergent



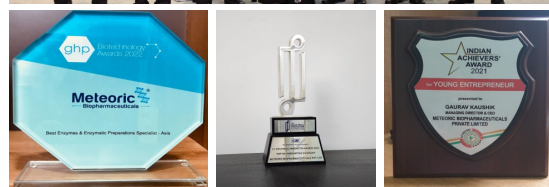
Bakery



Distillery and Brewery

## Recognized for Excellence

Our pursuit of excellence has earned us prestigious accolades year on year, such as 'Pharma Company of the Year' by ASSOCHAM India 2024, 'Best SME of the Year' in Manufacturing category- Biotech Sector by Gujarat Industry development Association, 'Top 100 SMEs of India' by the India SME Forum 2022, the Best Enzymes and Enzymatic Preparations Specialist in Asia as the 'GHP Biotechnology Awards' 2022, UK, CII Industrial Innovation Awards 2022 as 'Top 50 Innovative Company', Nation Builder Recognition by India SME Forum in 2021



## OUR MISSION

We are on a mission to revolutionize the biopharma arena through innovative solutions and unparalleled expertise

## Product Segment & Services

We provide solutions in **Enzymes, Enzymatic Preparations, Probiotics, Prebiotics, Synbiotics, Postbiotics, Bioactives, Formulations and Animal Health Care** offering product customization, concept-based formulations, and contract manufacturing, integrated under one roof



# GROUP METEORIC



Meteoric Biopharmaceuticals Animal Healthcare Division offers high-quality enzymes, probiotics, and nutraceuticals for dairy, poultry, and aquaculture. Focused on enhancing animal health, we provide reliable veterinary feed supplements and innovative enzymatic solutions for better efficacy



Meteoric Cosmeceuticals Pvt. Ltd., as part of the Meteoric Group, delivers next-generation cosmetic ingredients, including enzymes and bioactives. Our focus on the skin microbiome drives the development of innovative postbiotics and natural solutions. Backed by advanced research, our solutions provide pioneering innovations for the cosmetic industry



Panacea Phytoextracts Pvt. Ltd. specializes in standardized herbal extracts for biomedicines and cosmetics, emphasizing active metabolites and 100% certified purity. With 28 GMP-certified herbal solutions, we aim to expand R&D collaborations for innovative phytoextracts from indigenous plants



Established in 2019 as a CSR partner of Meteoric, VISHALWIN Foundation focuses on two key initiatives: VishalCARE, providing rehabilitation for children with neurodiversity, and VishalSAVE, enhancing road safety through ambulance installations and emergency response systems. Our mission is to foster inclusion and support for vulnerable communities across India





**Exports to over  
120 countries**



**Specialized in Enzymes,  
Probiotics, Bio-actives &  
FDF (Human and Animal)**



**Serving 1000+  
customers  
worldwide**



**30+ Probiotics isolated,  
studied and registered  
with internationally  
recognized Gene bank**



**Expertise in Plant  
based Enzymes &  
Vegan Probiotics**



**Synergetic combinations  
with appropriate  
Prebiotics and Postbiotics**



**Scientifically Backed &  
Clinically Proven  
Ingredients**



**Efficient supply  
chain management**





# NEWLY DEVELOPED: POWERFUL AND BIOAVAILABLE VEGAN ENZYMES

## Pancreatin

### Insufficiency Causes:

Type 1 and Type 2 Diabetes, Abdominal Pain, Loss Of Appetite, Bloating, Weight Loss, Diarrhea, Bone Pain, Muscle Cramps, Depression And Even Night Blindness

## Pepsin

### Insufficiency Causes:

Nutrient Deficiencies, Impaired Protein Digestion, Digestive Problems, Increased Risk Of Disease Like Anemia, Osteoporosis And Thyroid Problems

### Traditional Solution



Animal Based Pancreatin



## Not Feasible for

Vegan, Vegetarian, Ethically conscious diets, Individuals avoiding animal-derived products due to health, Allergic reactions, Religious, or Ethical reasons

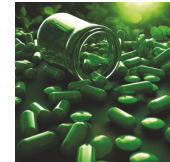
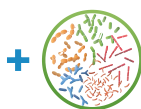
Introduced Innovative and Proven Vegan Solution  
of Animal originated Pancreatin and Pepsin

**Metcreatin-Veg®**

- Aids Pancreatitis
- Help in stomach pain
- Supports Digestive problems

**MetPeps-Veg®**

- Promotes Healthy pH Balance in the Stomach
- Help Protein Utilization
- Improves Stomach Health



### with Unique USP's



Active at a wide range of pH



Free from contaminants



Powder & Enteric coated pellet form



Residual solvent free



Highly concentrated & stable

**Metcreatin-Veg® & MetPeps-Veg®**

- Safety Proven by 14, 28 and 90-days study
- Efficacy Proven with comparison between Animal based market product and our Innovative *Metcreatin-Veg* & *MetPeps-Veg*

# ENZYMES *in* THERAPEUTIC APPLICATIONS



## Anti-inflammatory & Pain Relief

- METBROMA® Bromelain • METEOZYME P® Serratiopeptidase
- METPAPA® Papain • NATTOLIFE® Nattokinase



## Protein Digestion (Digestive Support)

- Pepsin • Pancreatin • Pancreatin Enteric Coated
- Granules/ Pellets • Trypsin-Chymotrypsin
- Trypsin, Chymotrypsin • Protease
- Metcreatin-Veg® Vegan Pancreatin
- Met Peps-Veg® Vegan Pepsin



## Carbohydrate Digestion (Digestive Support)

- Alpha Amylase • Maltogenic Amylase • Isomerase
- Invertase • Alpha Galactosidase • Glucose Oxidase



## Lipid Digestion (Digestive Support)

- Lipase



## Lactose Digestion (Digestive Support)

- Lactase



## Immune Support & Antibiotic Replacement

- Lysozyme HCL • Lysozyme Microbial



## Cardiovascular Health & Blood Flow

- NATTOLIFE® Nattokinase • Co-Enzyme Q10



## Anti-Oxidant & Cellular Health

- Co-Enzyme Q10



# ENZYMES *in* THERAPEUTIC APPLICATIONS



## Respiratory Health

• METBROMA® Bromelain • METEOZYME P® Serratiopeptidase



## Metabolic Health & Energy Support

• Alpha Amylase • Maltogenic Amylase  
• Isomerase



## Wound Healing & Tissue Repair

• METBROMA® Bromelain • METPAPA® Papain  
• Trypsin • Chymotrypsin



## Food Processing & Industrial Use

• Transglutaminase • Dextranase • Chymosin



## Detoxification & Gut Health

• Alpha Galactosidase • Pepsin • Trypsin • Protease



## Oral & Dental Health

• Glucose Oxidase • Lysozyme Microbial



## Fiber & Plant Material Breakdown

• Cellulase • Hemicellulase • Beta Glucanase  
• Xylanase • Mannanase (Acidic, Alkaline, Neutral)  
• Pectinase



## METBROMA® Bromelain

- Source: Stem of Pineapple (Ananus cosmosus)
- Activity up to 3000 GDU/gm, 1100 CDU/mg & 6 FIP/mg
- Validated by GDU, CDU, USP NF & JP methods
- DMF, SDMF, KDMF and ASMF are available
- Quality Approved by venture Laboratories and SORA Labs, USA.
- Excellent solubility and Variable bulk density.
- ETO and Aflatoxin free
- Complies regulatory guideline in Food and Drug
- Odourless, Available in Powder, Granules and Pellets
- Supports Protein digestion and IBS-IBD
- Improves Arterial Function
- Aids joint health
- Speeds post-surgery recovery
- Improves respiratory functions

## Meteozyme-P® Serratiopeptidase

- Source: Serratia E15
- Activity available up to 2600 IU/mg (SU/mg or SPU/mg) and 2300 IU/mg (Enteric Coated)
- Validated by IP, JP and Inhouse method
- DMF is available
- Approved by New Dietary Ingredient (Licence. No.1236)
- Complies with regulatory guideline in Food and Drug
- Available in the form of Powder and Enteric-Coated Granules (High Acid Resistance & Slow-Release Technology)
- ETO and Aflatoxin free
- Improves Arterial Function
- Supports post-surgery recovery
- Relieves pain
- Promotes healthy respiratory function
- Supports Heart health

## METPAPA® Papain

- Source: Latex from fruit of Papaya (Carrica papaya)
- Activity available up to 1000 TU/mg, 60,000 USP/mg
- Method validation by USP, TU, PU, IP
- DMF is available
- Complies with regulatory guideline in Food and Drug
- Water solubility
- Sulphites, ETO and Aflatoxin free
- Odourless, Available in Powder, Liquid and Enteric Coated
- Aids in digestion
- Improve skin health (exfoliation)
- Improves Arterial Function and helps in wound healing
- Promotes immune health

## NATTOLIFE® Nattokinase

- Source: Bacillus subtilis (Natto – Soy based food)
- Available Powder and EC form with activity up to 60,000 FU/g
- Evaluated by JP & In-house method
- Complies with regulatory guideline in Food and Drug
- Supports cardiovascular health by breaking down fibrin (clotting protein)
- Treatment of hypertension and lowering blood pressure
- Promotes healthy blood circulation
- Improved Sinus Health
- Aids in blood pressure management

## Metcreatin-Veg® Vegan Pancreatin

- Activity available up to 180 Lipase U/mg and customizable high Amylase and Protease combinations for Powder
- Vegan alternative with enhanced stability and Excellent bioavailability compared to pancreatin from animal origin
- Active at a wide range of pH
- Highly concentrated & stable
- Powder & Enteric coated pellet form
- Free from contaminants
- Residual solvent free
- Clinically safe with additional health benefits
- Robust performance across broad pH range
- Free from ETO, Aflatoxin, solvents and contaminants such as steroid and pathogens
- Improves the digestion of macronutrients
- Promotes nutrient assimilation
- Ideal for sensitive stomachs
- Supports healthy gut function
- Improves pancreatitis

## Pancreatin

- Activity available up to 11 X and customizable high lipase combinations for Powder
- Available with activity up to 40,000 USP U(Ph.Eur U) for Enteric Coated
- Validated by IP, EP, USP and BP methods
- DMF and KDMF is available
- Complies with regulatory guideline in Food and Drug
- Registered at CDSCO, India and registration in process at TRACES (European Commission).
- Available in Powder and Enteric Coated Form
- Treat conditions like Pancreatitis
- ETO and Aflatoxin free
- Supports digestion of fats, proteins, and carbohydrates
- Boosts nutrient intake efficiency
- Encourages healthy digestion
- Bovine source also available





## **Vegan Pepsin**

- Activity available up to 10,000 U/mg
- A preferred vegan alternative with superior bioavailability compared to the Animal origin Pepsin
- Thermal stability high acid resistance enables it to function across stomach and duodenal pH.
- Free from ETO, Aflatoxin, solvents and contaminants such as steroids and virus such as TSE/BSE
- Promotes nutrient absorption and helps in Hypochlorhydria
- Digestion of antibodies and proteins
- Assessment of digestibility of proteins in food chemistry
- Preparation of collagen for cosmeceutical purposes
- Subculture of viable mammary epithelial cells
- Aid in digestion in various gastrointestinal conditions

## **Pepsin**

- Available activities: 1:3000, 1:10,000 and 1:15000 NF U/mg
- Evaluated by IP, EP and USP
- Registered at CDSCO, India and DMF is available
- Complies with regulatory guideline in Food and Drug
- Water soluble and Sparingly soluble
- Sterile form available
- ETO and Aflatoxin free
- Enhance protein digestion
- Supports gut health, alleviates indigestion
- Promotes nutrient absorption
- Supports healthy stomach function

## **Fungal Alpha Amylase**

- Activity available up to 1,00,000 IU/g, FAU/g, DU/g, SKB/g
- Validated by IP and In-house method
- Available in Powder and Granule form
- Water soluble and Thermostable
- Enhances carbohydrate digestion
- Supports nutrient absorption
- Aid in blood sugar regulation
- Promotes gut health
- Supports weight management

## **Bacterial Alpha Amylase**

- Activity available up to 30,000 CEIP
- Validated by In-house method

## **Maltogenic Amylase**

- Activity available up to 1,00,000 IU/g
- Water soluble and displays outstanding functionality across broad range of pH and temperature
- Breaks down starch into maltose
- Supports gut health
- Aid in blood sugar regulation
- Enhances nutrient absorption
- Supports healthy metabolism

## **Lactase (Acidic & Neutral)**

- Activity available up to 2,00,000 ALU/gm (Acid lactase powder), 3000 ALU/gm (Lactase liquid), 5000 NLU/gm (neutral Lactase)
- Available in Powder and Liquid form
- Works at lower to neutral pH
- Known as Beta-Galactosidase, Acidic Lactase is globally preferred dietary enzyme to manage lactose intolerance while Neutral Lactase is used for production of low-lactose

## **Protease (Alkaline, Neutral, Acidic)**

- Activity available up to 5,00,000 IU/g, HUT/g
- Wide range of pH available
- Efficiently breaks down protein and peptides
- Assist in maintaining gut balance
- Relieves inflammatory symptoms
- Boosts immune function
- Promotes muscle recovery

## **Trypsin-Chymotrypsin**

- Activity with Trypsin - Chymotrypsin activity ratio of 6:1 (2400:400 USP U/mg), 1:1, 7:3
- Evaluated by USP method
- DMF is available
- Supports protein digestion
- Suppresses inflammatory processes
- Promotes recovery post-surgery
- Boosts digestive efficiency
- Relieves pain and discomfort

## **Trypsin**

- Activity available up to 2500 USP/mg, 0.5µk/mg
- Evaluated by USP and BP methods
- DMF is available
- Supports protein digestion
- Helps break down peptides into amino acids
- Promotes healing
- Improves microbiome balance
- Reducing pain and inflammation from osteoarthritis



## Chymotrypsin

- Activity available up to 1000 USP/mg, 5µk/mg
- Evaluated by USP and IP methods
- DMF is available
- Supports protein digestion
- Reduces inflammation
- Helps alleviate pain and swelling
- Enhances tissue repair

## Lipase

- Available from different sources: Rhizopus oryzae, Candida rugosa & Aspergillus Spp..
- Available with activity up to 2,00,000 IU/g
- Effectively metabolize dietary fats and absorption
- Fat removal from chicken cartilage and hide
- Supports healthy lipid metabolism
- Reduces bloating
- Helps regulate body weight
- Supports heart health

## Lysozyme HCl

- Activity available up to 40,000 IU/mg
- DMF is available
- Naturally derived from sources such as Hen egg white
- Used in food and Pharma
- Stable under broad pH and temperature range
- Controlled immunomodulatory functions
- Highly effective against Multiple Drug Resistance bacteria
- Optimizes Immune System

## Lysozyme Microbial

- Activity available up to 5,00,000 IU/gm.
- Naturally derived bactericidal enzyme with broad specificity towards pathogens
- Antimicrobial activity
- Helps in post-operative skin infections

## Cellulase

- Activity available up to 1,00,000 IU/g, CU/g
- Breaks down cellulose
- Supports fiber digestion
- Aid in digestion of plant-based foods, reduces bloating

## Dextranase

- Activity available up to 1,00,000 IU/gm
- Removes dextran impurities during the manufacturing process of refined sugar and syrups
- Prevent dental plaques

## Pectinase

- Activity available up to 1,00,000 IU/g
- Selectively removes pectin component from pant roughage
- Ability to function at wide range of pH and temperature
- Breaks down pectin (a carbohydrate)
- Supports digestion of fruits and vegetables
- Promotes gut health
- Supports healthy skin

## Hemicellulase

- Stable enzymatic compound with higher activity
- Activity with activity up to 1,00,000 IU/gm
- Ability to degrade hemicellulose component of plant biomass into simpler pentose and hexose sugars
- Efficiently function at acidic neutral and basic pH with salient thermostability
- Widely used in animal feed to improve the nutrient absorption and energy turnover ruminants
- Enhances the utilization of raw material to improve biofuel production and brewing yield
- Catalytically stable and compatible with various enzymes, making it suitable for bio-scouring and biobleaching applications in textile and paper industry

## Xylanase

- Activity available up to 5,00,000 IU/gm
- Efficiently degrades the Xylan component of the plant fiber
- It has noticeable thermostability and retains significant functionality over a wide pH range
- Utilized as an eco-friendly bio-scouring and bio bleaching agent in textile and paper industry
- Clarifies xylan contaminants from food products and improves animal feed efficiency
- Key function in production of Xylo-oligosaccharides (XOS) prebiotic used to improve Gut Health

## Invertase

- Activity available up to 2,00,000 IU/gm, SU/gm
- Breaksdown sucrose into glucose and fructose
- Preventing crystallization in sugar syrups
- Contribute to smooth and creamy texture of confectionaries



## Alpha Galactosidase

- Activity available up to 10,000 GALU/gm.
- Displays remarkable thermostability and functions across broad pH range.
- ETO and Aflatoxin free
- Catalyses the hydrolytic cleavage of glycoproteins and glycolipids
- Widely used as a dietary supplement
- Reduce abdominal pain
- Enhances the absorption of nutrients

## Isomerase

- Activity available up to 2,00,000 IU/gm
- Greater thermostability, elongated half-life and functions efficiently in viscous medium
- Core functionality in the production of High Fructose Corn Syrup
- Also known as Glucose Isomerase and Xylose Isomerase
- Converts glucose and xylose into Fructose
- Improves energy metabolism
- Promotes digestive health
- Supports weight management

## Glucose oxidase

- Activity available up to 50,000 IU/g
- Reduces glucose levels
- Supports blood sugar regulation
- Aid in energy metabolism
- Help in wound healing by reducing oxidative stress

## Glucoamylase

- Known as Amyloglucosidase
- Break down starch directly into glucose
- Used in the production of sugar syrups
- Commonly used for wrap sizing of textile fibers
- Reduce starch viscosity for efficient paper coating

## Beta Glucanase

- Activity available up to 2,00,000 IU/gm
- Improves fabric texture
- Breaks down beta-glucans (found in grains and mushrooms)
- Supports digestive health
- Promotes immune function

## Chymosin

- Rennet enzyme for cheese-making
- Efficiently coagulates milk for superior texture
- Used in cheese making
- Breaks down proteins in dairy products

## Mannanase (Acidic, Alkaline, Neutral)

- Activity available up to 3,00,000 IU/g
- Breaks down mannans (complex carbohydrates)
- Improves gastrointestinal health
- Promotes gut health
- Reduces bloating and discomfort from fiber-rich foods

## Transglutaminase

- Activity available up to 240 IU/gm
- Improves texture of meat
- Supports tissue repair
- Aids wound healing
- promotes skin health
- Improve elasticity
- Strengthen of connective tissues

## Fat-Soluble Coenzyme Q10 (Ubiquinone & Ubiquinol)

- Available in standard (Ubiquinone) and reduced (Ubiquinol) forms
- USP/EP grade, >98% purity (HPLC)
- Sourced from Pseudomonas, Rhodobacter, Agrobacterium spp
- Food & Pharma grade; solvent-free (No EA, IPA, or Methanol)
- Ideal for softgels & lipid suspensions
- Supports ATP production and acts as a potent antioxidant
- Promotes heart, cognitive health, and endurance
- Used in nutraceuticals, pharma, and anti-aging therapies
- Compatible with Vitamin E, Omega-3, etc.
- Beneficial for fatigue, recovery, statin users, and heart health

## Water-Soluble Coenzyme Q10

- Available concentrations: Available up to 40%
- Assay methods: HPLC
- Ideal for beverages, sachets, effervescent tablets
- Enhanced bioavailability using micellar, liposomal, or nano-emulsion technology
- Also great for cosmetics: serums, lotions, gels
- Offers faster absorption & better bioavailability
- Boosts skin elasticity, reduces wrinkles & oxidative stress
- Supports heart & neurological health
- Perfect for sports & wellness blends
- Water-compatible and stable in aqueous formulations
- Suitable for beverages, tablets, sachets, and water-based supplements



# CLINICALLY PROVEN PROPRIETARY ENZYME BLENDS

**Digestive Enzyme Blend for Gut Health,  
Smooth Digestion and Stronger Muscles**

## Digest with Ease, Move with Strength



**MetDigestenz®**

Each 400 mg contains:

Amylase	30000 IU
Alpha Galactosidase	1000 GALU
Lactase	10000 ALU
Invertase	1000 IU
Cellulase	2000 IU
Bromelain	600 GDU
Lipase	8000 IU
Protease	10000 IU
Bacillus Coagulans MBBCM9™	15 billion CFU

### Gastrointestinal support for better digestion



**Improve  
Digestion**



**Flatulence**



**Help in IBS  
& Bloating**



**Dyspepsia**



**Digestion of  
proteins, fats,  
lipids and  
carbohydrates**



**Management  
of muscle soreness**



**Enhanced passive  
stiffness, swelling  
and inflammation**



**Aids  
Abdominal  
discomfort**



**Low on strength  
and power,  
Localized soreness  
and Disturbed  
proprioception**



**Help in  
Muscle  
shortening**



**Recover Muscle  
damage**

\*Available in various dosage and activity





# CLINICALLY PROVEN PROPRIETARY ENZYMES AND BOTANICALS

Power Enzymes and Botanicals for  
Enhanced Joint Comfort and Flexibility

## Restore Mobility, Relieve the Pain



**MetRelief TBR®**

Reduces  
inflammation,  
restores  
comfort

Each 335 mg contains:

Enteric coated Trypsin	NLT 48 mg
Enteric coated Bromelain	NLT 90 mg
Rutin Trihydrate	NLT 100 mg



**Anti-inflammatory  
Action**



**Pain Relief and  
Tissue Healing**



**Chronic Conditions  
and Arthritis**



**Athletes  
muscle injury**



**Post-Surgical Recovery  
(reduce swelling,  
bruising, and pain after  
a surgical procedure)**

\*Available in various dosage and activity





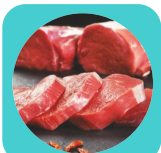
## Fermented Dairy Products

- *Lactobacillus bulgaricus* MBLBM18
- *Streptococcus thermophilus* MBSTM9
- *Lactobacillus acidophilus* MBLAM3®
- *Lactobacillus helveticus* MBLHM63
- *Lactobacillus casei* MBLCM42 • *Lactobacillus lactis* MBLLM48
- *Lactobacillus rhamnosus* MBLRM6®



## Probiotic Beverages

- *Bacillus coagulans* MBBCM9™ • *Lactobacillus plantarum* MBLPM27®
- *Lactobacillus reuteri* MBLREM24® • *Lactobacillus paracasei* MBLCPM54
- *Bifidobacterium bifidum* MBBBM12® • *Bifidobacterium lactis* MBBALM27



## Meat & Fish Fermentation

- *Lactobacillus sakei* MBLSKM90
- *Lactobacillus plantarum* MBLPM27®
- *Pediococcus acidilactisi* MBPAM57



## Bakery

- *Bacillus coagulans* MBBCM9™ • *Bacillus subtilis* MBBSM12®
- *Bacillus clausii* MBBCLM18 • *Saccharomyces cerevisiae* MBSCM72



## Nutritional Supplements & Powders

- *Bacillus coagulans* MBBCM9™
- *Lactobacillus plantarum* MBLPM27®
- *Bacillus clausii* MBBCLM18
- *Bifidobacterium longum* MBBBLM15®
- *Saccharomyces boulardii* MBSBM6
- *Clostridium butyricum* MBCBM81



## Infant Formula & Baby Food

- *Bifidobacterium breve* MBBBRM60 • *Bifidobacterium infantis* MBBIM30
- *Lactobacillus reuteri* MBLREM24®
- *Bifidobacterium longum* bv. *Infantis* MBBBLM15®



## Confectionery (Chocolates & Bars)

- *Bacillus coagulans* MBBCM9™ • *Bacillus subtilis* MBBSM12®
- *Lactobacillus rhamnosus* MBLRM6®
- *Bifidobacterium lactis* MBBALM27



# PROBIOTICS *in* FOOD APPLICATIONS



## Plant-Based & Vegan Products

- *Bacillus coagulans* MBBCM9™
- *Bifidobacterium animalis subsp. Lactis* MBBALM27
- *Lactobacillus plantarum* MBLPM27®
- *Lactobacillus salivarius* MBLSM51



## Pickled Vegetables & Fermented Foods

- *Lactobacillus plantarum* MBLPM27®
- *Lactobacillus brevis* MBLBRM45
- *Pediococcus acidilactisi* MBPAM57
- *Bacillus coagulans* MBBCM9™



## Functional Foods & Fortified Products

- *Bacillus coagulans* MBBCM9™ • *Bacillus subtilis* MBBSM12®
- *Bifidobacterium longum* MBBBLM15®
- *Saccharomyces cerevisiae* MBSCM72
- *Akkermansia muciniphila* MBAMM87



## Cheese Production

- *Lactobacillus helveticus* MBLHM63
- *Streptococcus thermophilus* MBSTM9
- *Lactobacillus delbrueckii subsp. Bulgaricus* MBLBM18



## Alcoholic Beverage Fermentation

- *Saccharomyces cerevisiae* MBSCM72
- *Bacillus amyloliquefaciens* MBBAM3



## Animal Feed & Pet Food

- *Bacillus subtilis* MBBSM12® • *Bacillus coagulans* MBBCM9™
- *Bacillus clausii* MBBCLM18 • *Enterococcus faecium* MBEFM36



## Soy & Plant-Based Fermentation

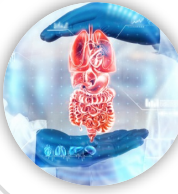
- *Bacillus subtilis* MBBSM12® • *Bacillus clausii* MBBCLM18
- *Bacillus licheniformis* MBBLM21®



## Food Preservation & Safety

- *Bacillus subtilis* MBBSM12® • *Bacillus clausii* MBBCLM18
- *Bacillus amyloliquefaciens* MBBAM3
- *Streptococcus salivarius* MBSSM12





## Gut Health & Digestive Support

- *Bacillus coagulans* MBBCM9™ • *Bacillus subtilis* MBBSM12®
- *Bacillus clausii* MBBCLM18 • *Bacillus amyloliquefaciens* MBBAM3
- *Bifidobacterium bifidum* MBBBM12® • *Bifidobacterium longum* MBBBLM15®
- *Bifidobacterium lactis* MBBALM27 • *Bifidobacterium breve* MBBBRM 60
- *Lactobacillus acidophilus* MBLAM3® • *Lactobacillus rhamnosus* MBLRM6®
- *Lactobacillus plantarum* MBLPM27® • *Lactobacillus casei* MBLCM42
- *Lactobacillus fermentum* MBLFM33 • *Lactobacillus helveticus* MBLHM63
- *Pedococcus acidalactisi* MBPAM57 • *Enterococcus faecium* MBEFM36
- *Lactococcus lactis* MBLLM78



## Immune System Support

- *Bacillus coagulans* MBBCM9™ • *Bacillus clausii* MBBCLM18
- *Bacillus subtilis* MBBSM12® • *Bifidobacterium bifidum* MBBBM12®
- *Bifidobacterium lactis* MBBALM27 • *Lactobacillus rhamnosus* MBLRM6®
- *Lactobacillus reuteri* MBLREM24® • *Lactobacillus salivarius* MBLSM51
- *Streptococcus thermophilus* MBSTM9 • *Saccharomyces boulardii* MBSBM6
- *Clostridium butyricum* MBCBM81



## Anti-Inflammatory & Allergy Relief

- *Bacillus clausii* MBBCLM18 • *Bacillus indicus* MBBIM15
- *Bifidobacterium longum* MBBBLM15® • *Lactobacillus rhamnosus* MBLRM6®
- *Lactobacillus reuteri* MBLREM24® • *Lactobacillus paracasei* MBLCPM54
- *Akkermansia muciniphila* MBAMM87



## IBS & IBD Management

- *Bacillus coagulans* MBBCM9™ • *Bacillus subtilis* MBBSM12®
- *Bifidobacterium longum* MBBBLM15® • *Bifidobacterium longum subsp. Infantis* MBBIM30
- *Lactobacillus plantarum* MBLPM27® • *Lactobacillus rhamnosus* MBLRM6®
- *Saccharomyces boulardii* MBSBM6



## Mental Wellbeing & Mood Support

- *Bifidobacterium longum* MBBBLM15® • *Bifidobacterium breve* MBBBRM60
- *Lactobacillus helveticus* MBLHM63 • *Lactobacillus rhamnosus* MBLRM6®



## Women's Health & Vaginal Flora

- *Lactobacillus crispatus* MBLCM75 • *Lactobacillus jensenii* MBLJEM66
- *Lactobacillus johnsonii* MBLJM69 • *Lactobacillus reuteri* MBLREM24®







## Oral Health

- *Streptococcus salivarius* MBSSM12 • *Streptococcus thermophilus* MBSTM9
- *Lactobacillus salivarius* MBLSM51



## Weight Management & Metabolic Health

- *Akkermansia muciniphila* MBAMM87 • *Bifidobacterium breve* MBBBRM60
- *Lactobacillus gasseri* MBLGM21



## Traveler's Diarrhea & Infections

- *Saccharomyces boulardii* MBSBM6 • *Bacillus clausii* MBBCLM18
- *Lactobacillus rhamnosus* MBLRM6®



## Cholesterol & Heart Health

- *Lactobacillus plantarum* MBLPM27® • *Lactobacillus reuteri* MBLREM24®
- *Bacillus coagulans* MBBCM9™



## Post-Antibiotic Recovery

- *Saccharomyces boulardii* MBSBM6 • *Bacillus clausii* MBBCLM18
- *Lactobacillus rhamnosus* MBLRM6® • *Clostridium butyricum* MBCBM81



## Skin Health & Anti-Aging

- *Lactobacillus helveticus* MBLHM63 • *Bifidobacterium breve* MBBBRM60
- *Bifidobacterium longum* MBBBLM15®



# PROBIOTICS

Product Name	Strain Name	MTCC Acc. No	NCBI Acc. No
• <i>Bacillus coagulans</i> Lactic acid <i>Bacillus</i> <i>Bacillus sporogenous</i> / <i>Lactobacillus sporogenes</i> <i>Wiezmannia coagulans</i>	MBBCM9™	MTCC 25157	16S- MN736120 WGS - JABDSL0000000000
• <i>Bacillus subtilis</i>	MBBSM12®	MTCC 25292	MW290934
• <i>Bacillus clausii</i>	MBBCLM18	MTCC 25400	MW290931
• <i>Alkalihalobacillus clausii</i>			
• <i>Bacillus amyloliquefaciens</i>	MBBAM3	MTCC 25623	PP196108
• <i>Bacillus megaterium</i>	MBBMM24	MTCCXXXX	PP196114
• <i>Bacillus licheniformis</i>	MBBLM21®	MTCC 25443	OL440917
• <i>Bacillus mesentericus</i>	MBBMEM30	MTCCXXXX	
• <i>Bacillus indicus</i>	MB BIM15	MTCCXXXX	
• <i>Bacillus pumilus</i>	MBBPM6	MTCCXXXX	
• <i>Bacillus polymyxa</i>	MBBPOM27	MTCCXXXX	
• <i>Bifidobacterium bifidum</i>	MBBBM12®	MTCC 25473	
• <i>Bifidobacterium longum</i>	MBBBLM15®	MTCC 25474	OP542590
• <i>Bifidobacterium lactis</i>	MBBALM27	MTCC 25633	
• <i>Bifidobacterium animalis subsp. lactis</i>			
• <i>Bifidobacterium Infentis</i>	MBBIM30	MTCC 25651	PP196110
• <i>Bifidobacterium longum subsp. infantis</i>			
• <i>Bifidobacterium longum bv. Infantis</i>			
• <i>Bifidobacterium longum infantis</i>			
• <i>Bifidobacterium breve</i>	MBBBRM 60	MTCC 25595	
• <i>Lactobacillus acidophilus</i>	MBLAM3®	MTCC 25346	Mn744691
• <i>Lactobacillus rhamnosus</i>	MBLRM6®	MTCC 25430	MZ410772
• <i>Lactobacillus rhamnosus GG</i>			
• <i>Lactobacillus bulgaricus</i>	MBLBM18	MTCC 25592	
• <i>Lactobacillus gasseri</i>	MBLGM21	MTCC 25593	OP926020
• <i>Lactobacillus reuteri</i>	MBLREM24®	MTCC 25649	OR432316
• <i>Lactobacillus plantarum</i>	MBLPM27®	MTCC 25594	
• <i>Lactobacillus casei</i>	MBLCM42	MTCC 25650	OR432338
• <i>Lactobacillus brevis</i>	MBLBRM45	MTCCXXXX	
• <i>Lactobacillus lactis</i>	MBLLM48	MTCCXXXX	
• <i>Lactobacillus salivarius</i>	MBLSM51	MTCC 25747	
• <i>Lactobacillus paracasei</i>	MBLCPM54	MTCC 25632	
• <i>Lactocaseibacillus paracasei</i>			OR432298
• <i>Lactobacillus fermentum</i>	MBLFM33	MTCCXXXX	
• <i>Lactobacillus helveticus</i>	MBLHM63	MTCC25744	
• <i>Lactobacillus jensenii</i>	MBLJEM66	MTCCXXXX	
• <i>Lactobacillus johnsonii</i>	MBLJM69	MTCC 25745	
• <i>Lactobacillus crispatus</i>	MBLCM75	MTCC 25746	



# PROBIOTICS

Product Name	Strain Name	MTCC Acc. No	NCBI Acc. No
• <i>Streptococcus thermophilus</i>	MBSTM9	MTCC 25431	MZ410783
• <i>Streptococcus salivarius</i>	MBSSM12	MTCCXXXX	
• <i>Saccharomyces boulardii</i>	MBSBM6	MTCC 25401	OP925906
• <i>Saccharomyces cerevisiae</i>	MBSCM72	MTCC 25736	PP204300
• <i>Pediococcus acidalactisi</i>	MBPAM57	MTCC 25743	
• <i>Clostridium butyricum</i>	MBCBM81	MTCCXXXX	
• <i>Enterococcus faecium</i>	MBEFM36	MTCC 25624	PP195986
• <i>Enterococcus faecalis</i> ( <i>Streptococcus faecalis</i> )	MBSEFM84	MTCCXXXX	
• <i>Lactococcus lactis</i>	MBLLM78	MTCCXXXX	
• <i>Akkermansia muciniphila</i>	MBAMM87	MTCCXXXX	

# POSTBIOTICS

Product Name	Strain Name
• <i>Lactobacillus reuteri</i>	MBLREM24®
• <i>Lactobacillus fermentum</i>	MBLFM33
• <i>Lactobacillus acidophilus</i>	MBLAM3®
• <i>Lactobacillus bulgaricus</i>	MBLBM18
• <i>Lactobacillus casei</i>	MBLCM42
• <i>Lactobacillus salivarius</i>	MBLSM51
• <i>Lactobacillus helveticus</i>	MBLHM63
• <i>Lactobacillus plantarum</i>	MBLPM27®
• <i>Lactobacillus paracasei</i>	MBLCPM54
• <i>Lactobacillus brevis</i>	MBLBRM45
• <i>Lactobacillus rhamnosus</i>	MBLRM6®
• <i>Bacillus coagulans</i>	MBBCM9™
• <i>Alkalihalobacillus clausii</i>	MBBCLM18
• <i>Bacillus amyloliquefaciens</i>	MBBAM3
• <i>Bacillus megaterium</i>	MBBMM3
• <i>Bacillus licheniformis</i>	MBBLM21®
• <i>Bifidobacterium bifidum</i>	MBBBM12®
• <i>Bifidobacterium longum</i>	MBBBLM15®
• <i>Akkermansia muciniphila</i>	MBAMM87



## *Akkermansia muciniphila* MBAMM87



*Akkermansia muciniphila* was identified during efforts to uncover novel mucin-degrading bacteria.

As a prominent species within the gut's mucus layer, it plays a pivotal role in supporting beneficial microbial networks—earning it the nickname, 'The Powerhouse Bacterium.'

### Mechanism of Action:

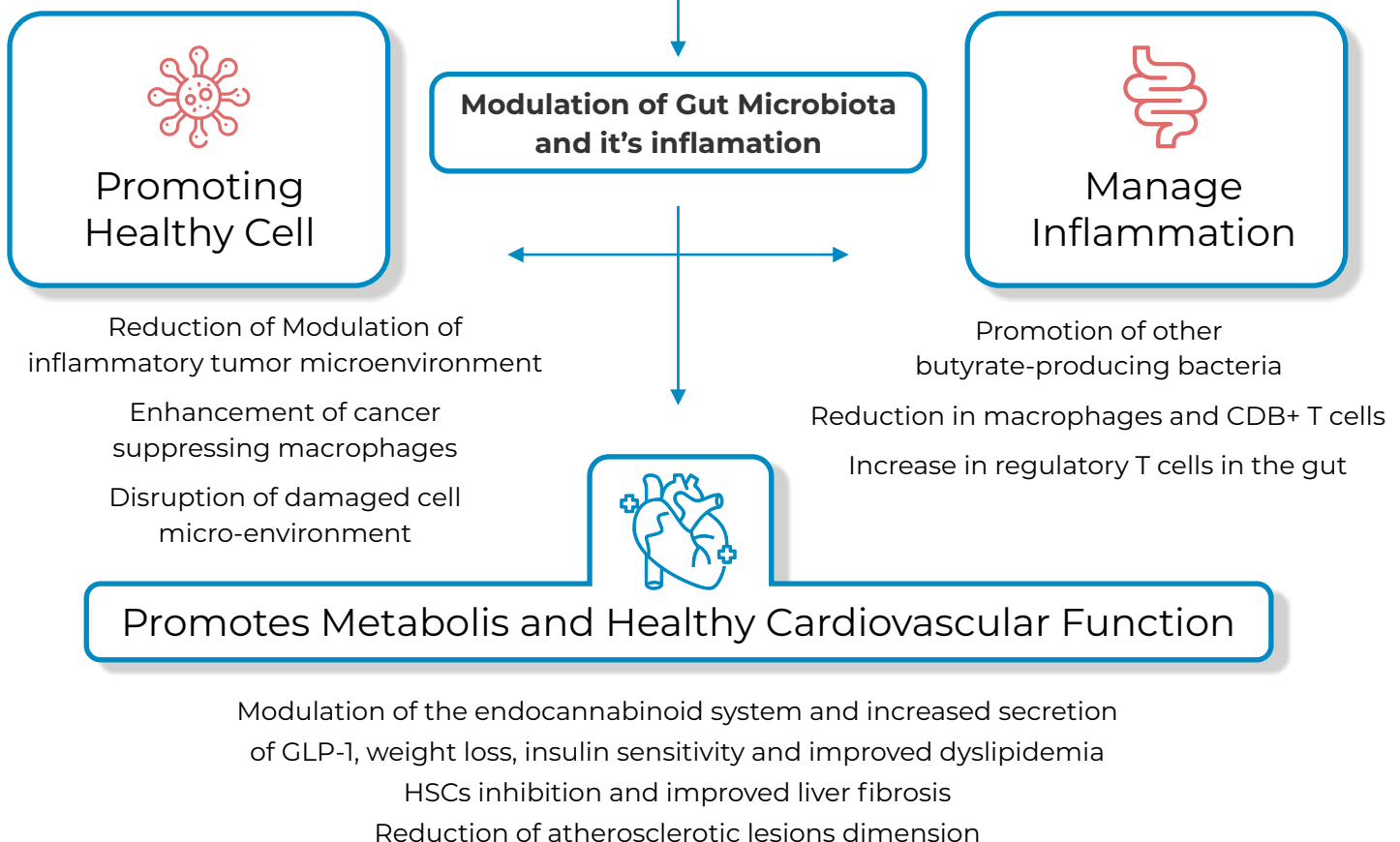


#### *Akkermansia muciniphila* MBAMM87

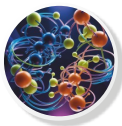
Improve of **intestinal barrier integrity**

Production of **SCFAs** and *Akkermansia* specific microbial products (**Amuc**)

Modulation of **immune cells** population and inflammatory cytokines

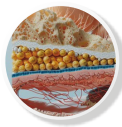






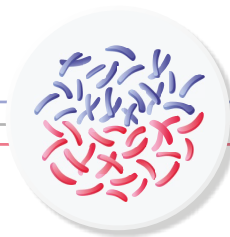
## Gut Function:

- Plays a crucial role in Gut Health
- Protect against Leaky Gut
- Intestinal barrier Integrity
- Improve Glucose Regulation



## Pasteurized Akkermansia and its future prospects

- Enhance Its Stability
- Used in Food Supplements
- Maintains active membrane proteins
- Triggers both host metabolic and immune responses



## *Akkermansia muciniphila* MBAMM87

### Type 1 diabetes

- ↓ Mucus production & antimicrobial peptide Reg3γ
- ↓ Blood Glucose
- ↑ Serum endotoxins & islet TLR2/4 expression

### Depression and anxiety

- ↑ Serum & brain serotonin levels
- ↓ Minor depression, Nervousness on ease
- ↓ Cognitive impairment

### Supports weight management and associated metabolic disorders

- ↓ Body weight and fat mass
- ↓ Insulin resistance
- ↓ Inflammation
- ↓ Liver dysfunction markers

### Apoptosis cell

- ↓ Resistance to ICI (NSCLC)
- ↑ Efficacy of AD treatment (PC)
- ↑ Efficacy of IL-2 treatment (CRC/ melanoma)

### Inflammation & Bowel symptoms

- ↑ Gut barrier function
- ↓ Swelling, Irritation, Pain, Tenderness
- ↓ Disease activity index
- ↓ Histopathology score

### Periodontitis

- ↓ Alveolar bone loss
- ↓ Soft tissue inflammation

# CLINICALLY PROVEN PROPRIETARY PROBIOTIC BLENDS



  
**MetSheFlora-Pro™**

Each 450mg contains: 150 Billion

**Say Goodbye to Discomfort,  
Hello to Wellness**

<i>Lactobacillus acidophilus</i> MBLAM3®	15 B
<i>Lactobacillus johnsonii</i> MBLJM69	10 B
<i>Lactobacillus reuteri</i> MBLREM24®	15 B
<i>Lactobacillus rhamnosus</i> MBLRM6®	10 B
<i>Lactobacillus crispatus</i> MBLCM75	10 B
<i>Lactobacillus delbrukispp.bulgaricus</i> MBLBM18	10 B
<i>Lactobacillus plantarum</i> MBLPM27®	15 B
<i>Lactobacillus helveticus</i> MBLHM63	10 B
<i>Lactobacillus gasseri</i> MBLGM21	10 B
<i>Bifidobacterium breve</i> MBBBRM60®	10 B
<i>Bifidobacterium bifidum</i> MBBBM12®	10 B
<i>Bifidobacterium longum</i> MBBBLM15®	15 B
<i>Bifidobacterium lactis</i> MBBALM27	10 B

## Health benefits



**Prevents Bacterial  
Vaginosis**



**Promote Urinary  
Health**



**Maintains Healthy  
Vaginal Flora**



**Reduce The Risk  
of UTI**

Customized concentrations available



  
**MetProrenes®**

Each 450mg contains: 100 Billion

**Don't Wait for the Pain-  
Protect Your Kidneys Today**

<i>Lactobacillus acidophilus</i> MBLAM3®	20 B
<i>Bifidobacterium longum</i> MBBBLM15®	30 B
<i>Streptococcus thermophilus</i> MBSTM9®	30 B
<i>Lactobacillus plantarum</i> MBLPM27®	20 B

## Health benefits



**Aid in Kidney Function**



**Reduce The Absorption  
Of Oxalic Acid**



**Decrease Risk Of  
Kidney Stone Formation**

Customized concentrations available



# CLINICALLY PROVEN PROPRIETARY PROBIOTIC BLENDS



## MetProUltima®

Each 450mg contains: 140 Billion

<i>Lactobacillus acidophilus</i> MBLAM3®	10 B
<i>Lactobacillus brevis</i> MBLBRM45	10 B
<i>Lactobacillus casei</i> MBLCM42	10 B
<i>Lactobacillus rhamnosus</i> MBLRM6®	10 B
<i>Lactobacillus paracasei</i> MBLCPM54	10 B
<i>Lactobacillus salivarius</i> MBLSM51	10 B
<i>Lactobacillus plantarum</i> MBLPM27®	15 B
<i>Lactobacillus bulgaricus</i> MBLBM18	10 B
<i>Bifidobacterium breve</i> MBBBRM60®	10 B
<i>Bifidobacterium bifidum</i> MBBBM12®	10 B
<i>Bifidobacterium longum</i> MBBBLM15®	10 B
<i>Bifidobacterium lactis</i> MBBALM27	15 B
<i>Bacillus coagulans</i> MBBCM9™	20 B

## Nourish Your Gut, Boost Your Immunity

### Health benefits



Restores Healthy  
Gut Flora



Improves Digestion



Supports Gastrointestinal  
Health



Boost Immunity

Customized concentrations available



## MetBaciTrio™

Each 250 mg contains: 100 Billion

<i>Bacillus coagulans</i> MBBCM9™	40 B
<i>Bacillus subtilis</i> MBBSM12®	30 B
<i>Bacillus clausii</i> MBBCLM18	30 B

## The Athlete's Advantage in Gut-Driven Performance

### Health benefits



Help in IBS, IBD, Dyspepsia & Bloating



Improves digestion of proteins, fats,  
carbs-fueling better performance



Aid in muscle soreness recovery



Reduces passive stiffness  
& inflammation

Customized concentrations available



# BIOACTIVES *in* COSMETIC APPLICATIONS



## Hydrators & Moisturizers

- MET-ALYURONATE™ Sodium Hyaluronate
- ACIHYA-MET™ Hyaluronic Acid
- Sodium Hyaluronate from Tremella
- Chondroitin Sulfate
- N-Acetyl Glucosamine (GlcNAc)



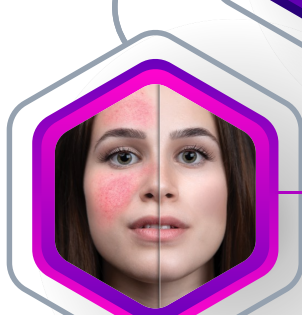
## Antioxidants & Skin Protectors

- THEONL-MET™ L-Theanine • L-Glutathione Reduced & Oxidized
- MET-LGLUE-EYX™ L-Glutathione Enriched Yeast Extract
- Superoxide Dismutase (SOD)



## Skin Barrier & Anti-aging

- L-methyl tetrahydrofolate calcium
- Beta Glucan • Phosphatidyl Choline
- Phosphatidyl Serine
- ACIHYA-MET™ Hyaluronic Acid



## Cell Regenerators & Skin Repair

- S-Adenosyl-L-Methionine • ATP (Adenosine Triphosphate)
- PQQ (Pyrroloquinoline Quinone Disodium Salt)
- Ademetionine (1,4-butanedisulfonate)



## Enzyme & Activity Modulators

- MET-LGTHION-VEG™ Liposomal Glutathione
- Hyaluronidase

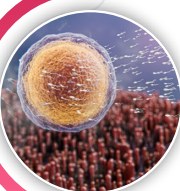


## Bioenergetic & Skin Revitalizers

- Healthcare supplements  
NMN / NMNH / NAD / NADH / NR
- IVD: NAD / NADH / NADP / NADPH / S-NAD







## Wound Healing & Tissue Repair

- MET-ALYURONATE™ Sodium Hyaluronate
- ACIHYA-MET™ Hyaluronic Acid
- Sodium Hyaluronate from Tremella (Tremella)



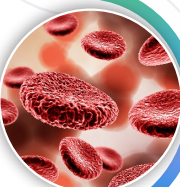
## Antioxidants & Cellular Protection

- Superoxide Dismutase (SOD) • Lutein • THEONL-MET™ L-Theanine
- L-Glutathione Reduced & Oxidized • Yeast Extract
- MET-LGTHION-VEG™ Liposomal Glutathione
- S-Adenosyl-L-Methionine • ATP (Adenosine Triphosphate)
- PQQ (Pyrroloquinoline Quinone Disodium Salt)



## Cognitive & Mental Health

- Alpha GPC (Alpha-Glycerolphosphorylcholine)
- Phosphatidyl Choline • Phosphatidyl Serine
- PQQ (Pyrroloquinoline Quinone Disodium Salt)



## Anti-Inflammatory & Immune Support

- THEONL-MET™ L-Theanine
- MET-LGLUE-EYX™ L-Glutathione Enriched Yeast Extract
- L-Glutathione Reduced & Oxidized • Beta Glucan
- N-Acetyl-L-cysteine • Lactoferrin



## Bone & Joint Health

- Sodium Hyaluronate from Tremella (Tremella)
- Chondroitin Sulfate • MET-ALYURONATE™ Sodium Hyaluronate
- ACIHYA-MET™ Hyaluronic Acid
- N-Acetyl Glucosamine



## Vitamins & Co-Factors

- L-Methyl tetrahydrofolate calcium • Beta Glucan
- Lutein



## Liver & Detox Support

- S-Adenosyl-L-Methionine • N-Acetyl-L-cysteine
- Ademetionine (1,4-butanedisulfonate)
- MET-LGTHION-VEG™ Liposomal Glutathione



## Energy Metabolism & Vitality

- NMN / NMNH / NAD / NADH / NR
- IVD: NAD / NADH / NADP / NADPH / S-NAD
- ATP (Adenosine Triphosphate)
- PQQ (Pyrroloquinoline Quinone Disodium Salt)



# BIOACTIVES

## ACIHYA-MET™ Hyaluronic acid COSMETIC GRADE

Product Name	Feature
MET-ALYURONATE™ Sodium Hyaluronate (HMW 1.5-3.0 M Da)	Forms a dense bio-moisturizing film on the skin surface, Long-term moisturizing
MET-ALYURONATE™ Sodium Hyaluronate (MMW 0.2-1.6 M Da)	Good moisturizing and lubricity effect, Slow release and stable emulsification effect
MET-ALYURONATE™ Sodium Hyaluronate (LMW 10,000 DA - 0.2 M Da)	Repairs damaged and sensitive skin, Hydrates the stratum cuticle, Persistent moisturizing and tender skin, Increases skin elasticity, delays skin aging, Promotes proliferation and differentiation of skin cells, Scavenges oxygen free radicals
MET-ALYURONATE™ Sodium Hyaluronate (OLMW <10,000 Da)	Absorbed through the skin, Moisturizes deeply, Anti-aging and skin regeneration support, Repairs skin after sun exposure
1% MET-ALYURONATE™ Sodium Hyaluronate Solution	Promotes proliferation and differentiation of skin cells
MET-ALYURONATE™ Acetylated Sodium Hyaluronate	Double moisturizing, antioxidation, anti-inflammatory, has both hydrophilicity and lipophilicity
Multiple MET-ALYURONATE™ Sodium Hyaluronate Solution	With 5 different MW HA, they form a three-dimensional sponge structure, all-round multi-level skin care
MET-ALYURONATE™ 15D Sodium Hyaluronate	Contains 15 different MW HA, super hydration, inhibits inflammation
MET-ALYURONATE™ Oil-dispersed Sodium Hyaluronate	Specially designed for color cosmetics, locks water firmly, and relieves dry skin caused by oily ingredients
MET-ALYURONATE™ Sodium Hyaluronate Fermentation Filtrate	Regulates skin micro-ecology, enhances skin cell renewal, and maintains skin health
Rejuvenating 800Da	Transdermal absorption, promotes cell value-added, repairs UV damage, inhibits inflammatory factors, promotes collagen synthesis
Zinc Hyaluronate	Moisturizing, antioxidation, skin soothing, skin oil reduction, anti-bacterial and anti-inflammatory
Tremella Fuciformis Polysaccharide	Highly effective moisturizing, antioxidation and anti-aging, improves skin feeling
Sodium Polyglutamate	Synergizes with HA to prolong the moisturizing time of HA, whitens skin, scavenges free radicals, and repairs photoaging
Ection	Repairs skin water locking system, reduces inflammation, strengthens skin barrier, and enhances dry skin immunity



# BIOACTIVES

## ACIHYA-MET™ Hyaluronic acid FOOD GRADE

Product Name	Feature
MET-ALYURONATE™ Food Grade Sodium Hyaluronate	Moisturizes skin, reduces lamination, improves fine lines, relieves joint pain, protects gastric mucosa
Food Grade Tremella Polysaccharide	Anti-aging, antioxidation, beauty & skincare, lowers blood sugar/lipids, boosts immunity
GABA	Promotes sleep, relieves fatigue/stress, calms the mind

## ACIHYA-MET™ Hyaluronic acid PHARMA GRADE

Product Name	Feature
Sodium Hyaluronate (Eye Drops Grade)	Lubricating, moisturizing, improving efficacy of drugs, relieving dry eye syndrome, and promote healing of corneal and conjunctival damage Promote wound healing Drug or cell carrier / matrix Repairing damaged mucosa or cartilage, etc.
Sodium Hyaluronate (Injection Grade)	Viscoelasticity, protecting corneal endothelium Lubricity, viscoelasticity, repair of damaged cartilage, inhibition of inflammation, pain relief ,Hyaluronic acid and its derivatives have good biocompatibility and biodegradability

### THEONL-MET™ L-Theanine

- Available assay 98.0% - 102.0%
- Water Soluble
- Reduces stress, promotes relaxation
- Used in treatments for anxiety and sleep disorders
- Provides pleasant savory tasteflavor in hot beverages

### L-Glutathione Reduced

- Available assay up to 98.0%
- Enzymatic and Fermentation based
- Complies with USP & EP standards
- Sterile grade available
- Reduced form: Anti-aging, skin-lightening
- Supports detoxification, immune boosting
- Promotes liver health

### L-Glutathione Oxidized

- Available assay up to 98.0%
- Is produced by the oxidation of reduced glutathione
- Oxidized form: Monitors oxidative stress in healthcare/biotech
- It is antioxidant that helps combat oxidative stress and supports cellular health
- Maintaining a healthy liver and detoxifying harmful substances

### MET-LGLUE-EYX™

#### L-Glutathione Enriched Yeast Extract

- Available assay up to 98%
- L-Glutathione is extracted from *Saccharomyces cerevisiae* through fermentation
- Titrimetric method by EP and USP
- Extends shelf-life of perishable foods
- Enhances nutrition & digestion in food
- Offers immunomodulatory & detoxifying benefits
- Supports skin health, detoxifies the skin
- Skin brightening
- Provides antioxidant protection

#### Nicotinamide mononucleotide Enriched Yeast Extract

- Available up to 98%
- Nicotinamide mononucleotide is extracted from *Saccharomyces cerevisiae* through fermentation
- Assay by HPLC
- Cellular renewal & anti-aging effects
- Enhances mitochondrial function for sustained, natural energy
- Supports healthy blood sugar levels & weight management
- Reinforces immunity and overall health



## S-Adenosyl-L-Methionine (SAME)

- Available assay 95.0% - 105.0%
- Available in Powder and Granule form
- Available in USP grade
- Nutraceutical & pharma ingredient for hepatic care
- Improves Arterial functions and manages Joint health pain
- Promotes skin cell renewal and repair
- Mood-regulation and Uplift Mood supplements

## Ademetionine (1,4-Butanedisulfonate)

- Supports glutathione levels for liver protection
- Potential treatment for Uplift Mood
- Aids Joint health
- Supports skin regeneration and collagen synthesis
- Mood-regulating supplements

## Adenosine Triphosphate (ATP)

- Available assay with 98%
- Used in performance-enhancing formulations for athletes
- Common in biochemistry diagnostics
- Boosts skin energy and anti-aging supplements
- Promotes cellular repair and rejuvenation
- Energy production
- Muscle health
- Used in recovery treatments for muscle or nerve injuries

## L-Methyl Tetrahydrofolate

- Available form L-Methyl folate, Calcium L-5-Methyltetrahydrofolate
- Available assay with 95%
- Complies with USP & IH standards.
- Available with calcium form ranging from 6.0 to 8.5%
- Available without calcium form
- With water content ranging from 6.0 to 17.0%
- Natural folic acid substitute for fortified foods & infant formula
- Highly bioavailable vs. folic acid
- Supports neuropathy & cognitive function
- Supports skin cell regeneration and overall skin health
- Brain function, cognitive health
- DNA synthesis supplements
- Used in prenatal vitamins and supports Neurological health

## Bile Salt

- Available assay 60% cholic acid
- Complies with USP standards
- Enhances fat digestion & absorption of vitamins (A, D, E, K)
- Effective in fat reduction & body contouring
- Supports in biochemical diagnostics
- Used in pharmaceutical formulation for bile acid therapies

## Alpha GPC

- Available assay 98.0% - 101.0%
- Improves cognitive function
- Supports Cognitive function, Dementia, Cognitive decline
- Enhances skin cell function by improving cognitive function
- Memory enhancement
- Used in pharmaceutical products for Cognitive function treatment

## MET-LGTHION-VEG™ Liposomal Glutathione

- Available up to 50%
- Enhanced absorption via liposomal technology
- Boosts collagen for firm & elastic skin
- Enhances skin protection, detoxifies the skin
- Boosts antioxidant protection

## Yeast Beta Glucan

- Available assay in 70%, 80% and 90%
- Soluble and insoluble forms available
- Promotes gut health & immunity
- Helps Normal Cholesterol levels and maintains healthy blood sugar
- Used in cosmetics for anti-aging & moisturizing
- Improve arterial function, and promotes wound healing
- Immune boosting supplements

## Oat Beta Glucan

- Available assay up to 90%
- Available in soluble and odourless form
- Beneficial for high Heart Health risk populations
- Anti-wrinkle promise
- Lowers the risk of coronary Heart Health by significantly Normal Cholesterol levels
- Stimulating immune cell function





## Mushroom Beta Glucan

- Sourced from premium medicinal mushrooms (e.g., Shiitake, Reishi)
- Rich in 1,3/1,6 Beta Glucans for immune support
- Available in high-purity, soluble, and tasteless form
- Enhances innate and adaptive immune responses
- Supports gut health and microbiome balance
- Acts as a natural immune modulator
- Suitable for functional foods, supplements, and beverages
- Backed by studies for Improves Arterial Function and antioxidant properties

## Chondroitin Sulfate

- Available up to 90%
- Sources: Bovine, Porcine, Chicken, Shark cartilage
- Used for Joint health & cataract treatment
- Improves skin hydration & collagen production
- Improve skin arterial functions, promotes tissue repair
- Joint health and mobility supplements
- Improves Arterial functions
- Used in injectable products for joint pain relief

## PQQ (Pyrroloquinoline Quinone Disodium Salt)

- Available assay up to 98%
- Used for mitochondrial health and cellular protection
- Enhances lipid metabolism & insulin sensitivity
- Protects cardiac & neurological health
- Supports skin rejuvenation and anti-aging supplements
- Used for anti-aging skincare
- Reduces oxidative stress

## Phosphatidyl Choline

- Available assay up to 70%
- Brain health, vital choline source
- Enhances liposome-based drug delivery
- Improves bioavailability of poorly soluble drugs
- Improves skin hydration, elasticity and helps with skin regeneration
- Brain health, cognitive function and medications for neurological conditions
- Used in liver disease treatments

## Phosphatidyl Serine

- Available assay up to 70%
- Prevents age-related cognitive decline
- Reduces stress & anxiety
- Supports muscle recovery & skin barrier function
- Improves skin hydration, elasticity, and helps with skin regeneration
- Brain health, cognitive function, and mood-enhancing supplements
- Used in medications for neurological conditions

## N-Acetyl Glucosamine

- Available assay: 98.0% - 101.0%
- Reduces hyperpigmentation
- Hydrates and improves skin elasticity, promotes wound healing
- Helps with Normal Joint Function

## N-Acetyl-L-Cysteine

- Available assay: 98.0% - 101.0%
- Enhances bone regeneration
- Protects skin from UV damage
- Supports detoxification
- Respiratory Function

## Lutein

- Available assay in 5% - 70% purity
- Available in Powder, Oil and Beadlets
- Available in Ester and Ester-free
- Prevents macular degeneration
- Used in poultry & aquaculture for color enhancement
- Protects skin from UV & oxidative stress
- Supports skin vitality
- Used in treatments for eye diseases like macular degeneration

## Lactoferrin

- Available assay: 80%, 90%, 95%
- Iron saturation of 8-20%
- Good solubility for easy processing
- Minimal processing to retain bioactivity
- Protecting breastfeeds infants against infection
- Boosts immunity & iron absorption
- Reduces redness, acne & Mild Acne in skincare



## Superoxide Dismutase (SOD)

- Available assay up to 1,00,000 IU/g
  - Improves Arterial functions & Heart Health
  - Protects skin from UV damage
  - Prevent the degradation of food quality - Preserves food
  - Reduces oxidative stress, promotes anti-aging, and improves skin health
  - Antioxidant, skin health, and anti-aging supplements
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## Hyaluronidase

- Breaks down hyaluronic acid fillers
  - Enhances drug diffusion & effectiveness
  - Breaks down hyaluronic acid for tissue regeneration
  - Used in cosmetic procedures to enhance drug delivery and tissue repair.
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## Lysates

- Antioxidant & hydration properties for skincare.
  - Strengthens skin microbiome & barrier function.
- 

## Healthcare Supplements

NMN/NMNH/NAD/NADH/NR

- Fermentation based product
- Supports cognitive function, Heart, Health & Blood Sugar Management
- Protects mitochondrial & DNA health
- Helps in Uplift Mood & Promotes Restful Sleep

IVD (NAD/NADH/NADP/NADPH/S-NAD)

- Essential cofactors for biochemistry diagnostics (SGPT, SGOT, Ammonia tests)
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## Collagen

- Available Sources (Fish Collagen, Chicken Collagen and Bovine Collagen)
- Collagen Types 1 & 3 – Hair, Skin, Nails, and Bones
- Collagen Type 2- Joint and Cartilage Support
- Odorless, Tasteless, and 100% Soluble in water
- Used in food coatings
- Cosmetics, wound healing
- Improves skin hydration, elasticity



# ACCREDITATIONS



ISO 9001:2015  
certified by SGS




# AFFILIATIONS AND COMPLIANTS




## OUR CLIENT PRESENCE



ENZYMES • PROBIOTICS • BIOACTIVES  
FORMULATIONS • ANIMAL HEALTHCARE

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