



natrusolate®

# NATURALLY AND TRULY ISOLATED

Product Catalogue

[www.natrusolate.com](http://www.natrusolate.com)

# NATRUSOLATE IS A BRANDED INGREDIENT DIVISION OF INDUS BIOTECH

Indus Biotech has 206 granted patents, 34 human clinical studies, 92 peer reviewed publications and 51 toxicological studies



206



34



92



51

# PROCESS, BENEFITS AND ATTRIBUTES



Use of only Water and Cane Alcohol for extraction process



100% recovery of active markers from Food chain raw materials



World class manufacturing facilities



Extracts of active markers of highest purity



No use of industrial solvents or chemicals



Certifications & accreditations of global standards



Product safety validated through comprehensive toxicology studies of highest International standards



Highest standards of Quality control – Quality assurance to ensure Batch to Batch consistency for Product's efficacy



Allergen free products

**BEST IN CLASS  
INGREDIENTS FOR  
DIETARY SUPPLEMENT,  
SPORTS NUTRITION AND  
COSMECEUTICALS FROM  
FOOD CHAIN BOTANICAL  
SOURCE**

The logo features the brand name 'Fenuflakes' in a bold, white, sans-serif font. A registered trademark symbol (®) is positioned at the top right of the word. The text is centered and overlaid on a background of a green, stylized leafy branch. Below the brand name, the tagline 'Let's complete your meal' is written in a white, cursive script font.

**Fenuflakes®**

*Let's complete your meal*

# Fenuflakes®

Fenuflakes is a food ingredient derived from fenugreek seed with high protein, high fiber, low fat – ultra low carb nutritional profile. It is neutral in taste and easy to integrate into a variety of foods to increase their nutritional value.

## Specifications:

**Fiber content ≥ 50%**

Soluble Fiber ≥ 25%

Insoluble Fiber ≥ 25%

**Protein content ≥ 25%**

**Net Carbs ≤ 1%**

**Fat content ≤ 2%**

**Free from Aflatoxin & Mycotoxin**

## USPs:

- 100 % Natural plant fibre and protein
- Neutral taste
- Low FODMAP certified
- Extremely low carb content
- Contains high amount of BCAAs
- 1:1 ratio of insoluble to soluble fibre
- Phytoestrogen-free
- Non-GMO, Gluten free, Vegan
- Halal and Kosher certified
- Suitable for Keto diet

## Health benefits:

- Helps maintain blood sugar levels in healthy range
- Helps reduce Glycemic index of high Glycemic food
- Helps to reduce the risk of metabolic syndrome
- Assists in the improvement of gut health
- Helps to increase feelings of satiety
- Aids in weight management

# Amino Acid Profile of Fenuflakes



Branched Chain Amino Acids (BCAA) > 10% of the total protein content in 100 gm Fenuflakes.

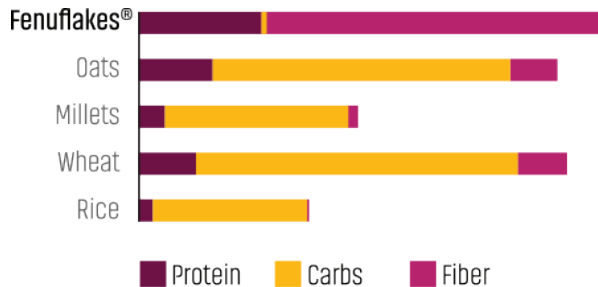
# Fenugreek Seeds vs Fenuflakes

SR. NO	AMINO ACID	FENUGREEK SEED	FENUFLAKES
1	Alanine	0.80%	0.98%
2	Arginine	1.92%	2.12%
3	Aspartic acid	2.88%	3.38%
4	Cysteine	0.63%	0.77%
5	Glutamic acid	5.21%	5.58%
6	Glycine	1.72%	2.05%
7	Histidine	0.27%	0.35%
8	Isoleucine	0.73%	1.05%
9	Leucine	2.35%	2.60%
10	Lysine	1.93%	2.40%
11	Methionine	1.32%	1.47%
12	Phenylalanine	0.44%	0.72%
13	Proline	1.17%	1.47%
14	Seine	1.07%	1.26%
15	Threonine	1.17%	1.47%
16	Valine	-	0.50%
<b>Total Protein</b>		<b>24.08%</b>	<b>29.05%</b>

## Application:

- An ideal ingredient for high protein, low carb, and high fiber diets.
- It enhances the nutritional value of foods like cookies, energy bars, and breakfast meals.
- Beneficial for diabetic individuals and can be used in their food preparations.
- It helps meet the recommended daily fiber intake when added to food products.

## Fenuflakes nutrition profile comparison



**Nutritional comparison  
(30 g)**

## Clinical Study:

A double-blind, placebo-controlled, crossover clinical study was conducted at the Madras Diabetes Research Foundation.

It was conducted to assess the impact of Fenuflakes (defatted fenugreek seed flakes) on 24-hour glycemc response in a diabetic population.

**Primary Objective:** To check the efficacy of Fenuflakes on incremental area under the curve for 14 days using a continuous glucose monitoring system.

**Secondary Objective:** To check changes in fasting blood glucose levels, HbA1c and body weight compared to baseline.

**Conclusion:**

- The 14 days crossover study using supplementation of diet with 30 gm/day Fenuflakes showed significant improvement in glycemic variability of participants compared to iso caloric control diet.
- Fasting blood glucose levels and HbA1c levels showed significant reduction in participants on test diet.
- The study results strongly suggest potential benefits of Fenuflakes which is a natural ingredient derived from Fenugreek seeds for type 2 diabetic population.

## Significant Findings in Glycemic Index Study

GI values calculated according to the method recommended by FAO/WHO.

Sr. No.	Food items	GI of foods		Change in GI
		Control without Fenuflakes	Test with Fenuflakes	
1	Aloo paratha	79±4	59±5	High-Medium
2	Cooked raw rice	73±6	47±2	High-Low
3	Idli	82±4	58±4	High-Medium
4	Upma	76±5	67±4	High-Medium



# Food application studies

## Chapatti with incorporation of fenugreek powder

- Chapatti with >10% of fenugreek incorporated can be claimed as “high fibre”
- Chapatti with >10% of fenugreek incorporated can be claimed as “high protein”



30%

## Fruity nuts bar with incorporation of fenugreek flakes

- Energy bar with >10% can be claimed as “high fibre”
- Energy bar with 20% of rolled oats replaced with Fenugreek flakes can be claimed as “source of protein”



20%

## Chocolate orange almond cookies with incorporation of fenugreek powder

- Only cookies with >20% can be claimed as “high fibre”
- Only cookie with 45% fenugreek powder can be claimed as “source of protein”



45%



**vinomerix**<sup>®</sup>

**Finest and Purest Polyphenols  
from Champagne Region**



Vinomerix is a highly purified Grape Seed Extract series of Natrusolate. It is manufactured from the seeds of the finest grapes available in the world, Champagne region of France. Vinomerix is standardized to monomer & OPC (Oligomeric Procyanidin Content) using the HPLC method.

## USPs:

- Manufactured from grapes cultivated in Champagne Region, France
- Solvents used in the manufacturing process are cane alcohol and water only. No industrial solvents or chemicals are used for manufacturing or purifying
- Authenticated Grape seed extract
- High in Catechin and Epicatechin and their Oligomers
- Markers estimated by HPLC
- Best-in-class water solubility compared to what's available in the market
- Vegan, Non-GMO, Gluten-free, Soy Free
- ETO compliant as per recent EU norms
- Higher antioxidant potency than Resveratrol on human HepG2 cell

## Specifications:

### VINOMERIX

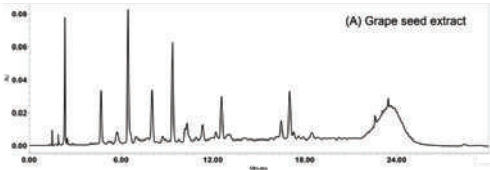
Total Polyphenols by Folin C method  $\geq 90\%$   
Monomers by HPLC  $\geq 5\%$

### VINOMERIX OPTIMA

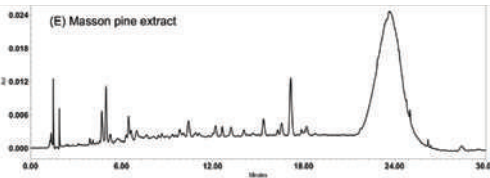
Total Polyphenols (OPC + Monomers)  $\geq 96\%$   
Monomers by HPLC  $\geq 16\%$   
OPC by GPC HPLC  $\geq 80\%$

### VINOMERIX ELITE

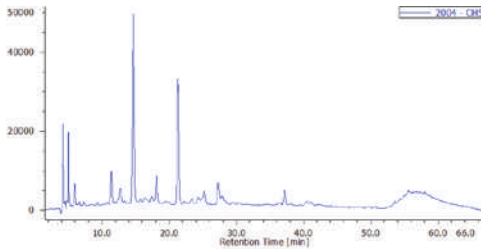
Monomers by HPLC  $\geq 25\%$



A) CHROMATOGRAM OF STANDARD GRAPE SEED EXTRACT



B) CHROMATOGRAM OF PEANUT SKIN EXTRACT



C) CHROMATOGRAM OF VINOMERIX

Typical adulteration of grape seed extract with peanut skin can be spotted by HPLC Fingerprinting

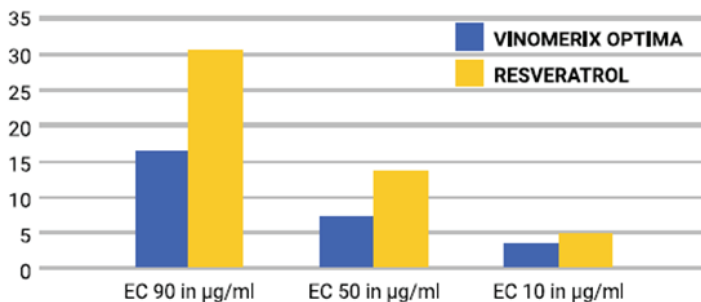
## Why combination of Monomer and OPC is potent?

- Grape Seed predominantly contains MONOMERS in the form of CATECHIN and EPICATECHIN. The efficacy of Grape seed extract depends on the bioavailability of Monomers
- Bioavailability of monomers is higher as compared to procyanidins. One of the recent studies shows that more than 80% of monomers are absorbed
- The bioavailability of procyanidin depends on the degree of polymerization
- Procyanidins are only absorbed and bioavailable up to three degrees of polymerization
- Vinomerix has higher effectiveness due to the high quantum of monomers and short-chain oligomers

## Antioxidant study:

Reactive oxygen and nitrogen species (RONS) are generated during normal cellular metabolism. Low and moderate amounts of RONS have beneficial effects but the disproportionate generation of RONS poses a serious problem to homeostasis and causes oxidative stress to the body.

The antioxidant potential of VINOMERIX optima is evaluated by LUCS (Light-up cell system) technology on a human liver cell model



Vinomerix Optima shows higher antioxidant potential than Resveratrol on human HepG2 cell

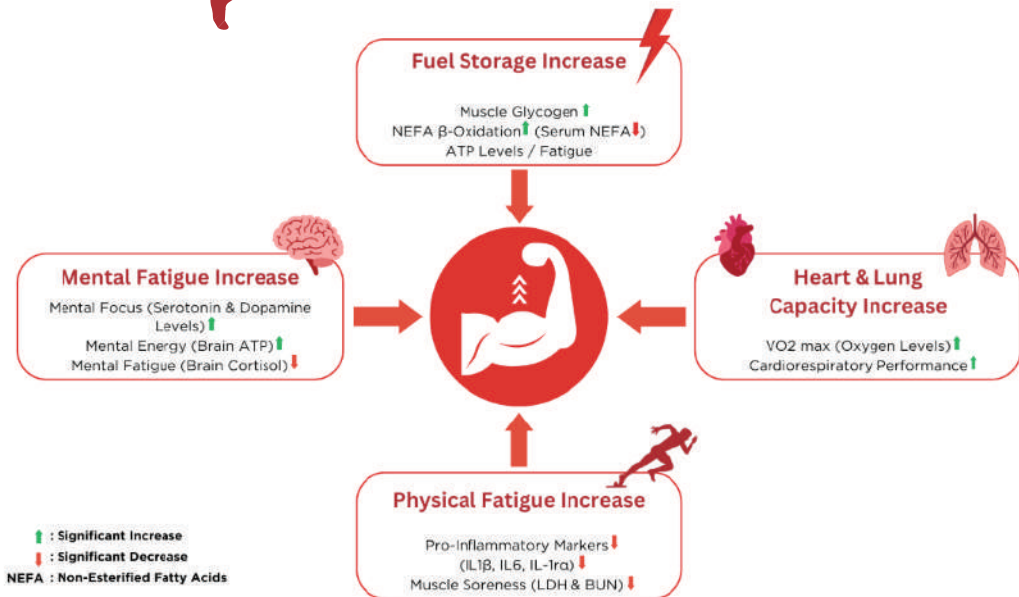
A close-up, low-angle shot of a runner's legs and feet on a red running track. The runner is wearing red shorts and black Enducor sneakers with grey mesh uppers and white soles. The runner's right leg is in mid-stride, with the foot off the ground. The track has white lane markings. The background is a green grassy field.

**ENDUCOR™**

Maximum  $V_{O_2}$ .  
Maximum Endurance.



Enducor is a natural, standardized ingredient proven by a human clinical study to significantly improve the exercise performance by increasing Endurance.



## USPs:

- Improves Cardiorespiratory function
- Improves Cellular respiration
- Reduces Physical & Mental Fatigue
- Non-stimulant
- Safe & well tolerated
- 100% Natural
- Soluble in Water



## Specifications:

Select Glycosides

not less than 12%

4 Hydroxy isoleucine

not less than 12%

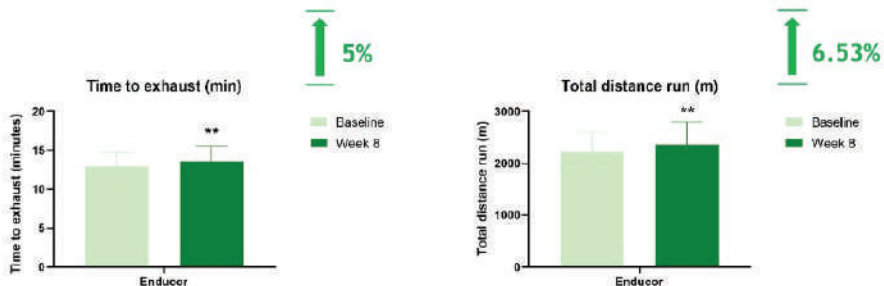
Trigonelline

not less than 12%

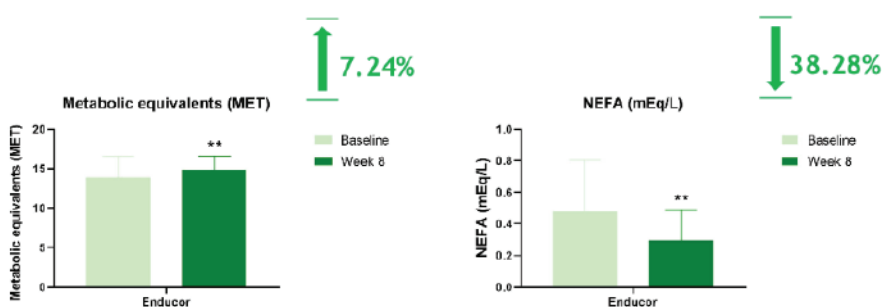
## Human Clinical Study:

The effect of 8 weeks of ENDUCOR supplementation in combination with exercise training on exercise capacity in healthy young volunteers.

### ENDURANCE

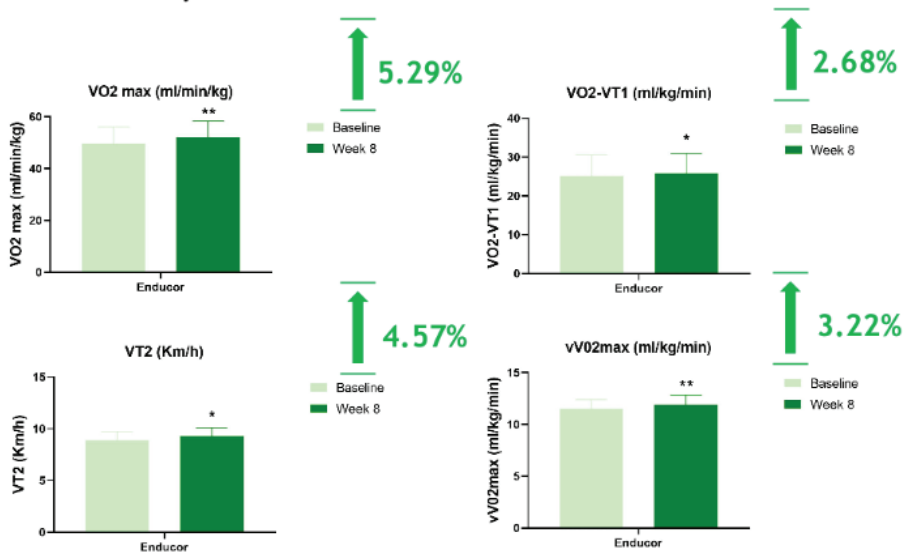


### METABOLIC PARAMETERS





# RESPIRATORY EXCHANGE RATIO



A woman is shown performing aerial silks, suspended upside down from a vertical rope. She is wearing a light-colored top and dark leggings. The background is a solid blue color. The brand name 'torabolic' is written in white lowercase letters with a registered trademark symbol, and 'for women' is written in pink lowercase letters below it. A pink heart icon is positioned to the left of the brand name.

 torabolic®  
for women

Protect Lean Mass  
while Burning Fat



Torabolic contains a highly purified patented standardized extract of Trigonella Foenum-Graecum seeds, that has been clinically shown to increase Lean Mass and Strength, while reducing Body Fat Percentage.

## USPs:

- Safety and Efficacy of TORABOLIC tested in two clinical, multiple preclinical and toxicological studies
- Does not affect hormonal levels or cause unwanted side-effects
- Torabolic helps improve your overall body composition
- Reduces body fat
- Preserves muscle while losing fat
- Water-soluble
- Informed Choice certificated Ingredient
- Gluten-free, vegan, and vegetarian
- It is certified Halal and Kosher
- Non-GMO project verified



## Specifications:

**Low Molecular weight  
Galactomannan/ Oligosaccharides**  
Not Less than 70%

**Standardised for Eleutheroside C**

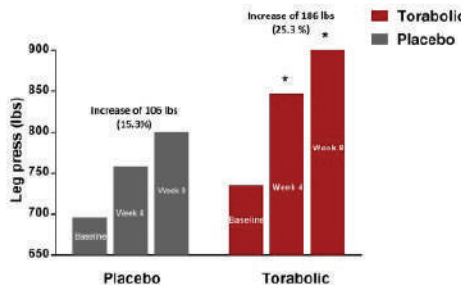
## Health benefits:

- Sports Nutrition
- Muscle & Strength Building
- Weight Management
- Fat Loss

# Clinical study 1:

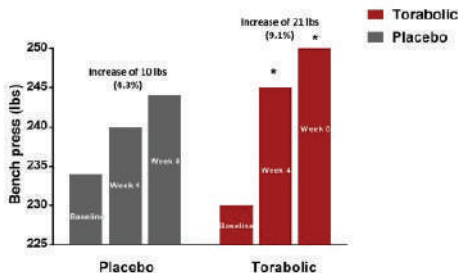
Effects of Torabolic supplementation on strength, body composition, power output and hormonal profiles in resistance-trained males.

### Increase in maximum leg press strength after 8 weeks of supplementation



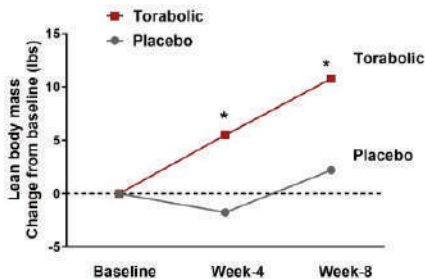
\*Statistically Significant results

### Increase in maximum bench press strength after 8 weeks of supplementation



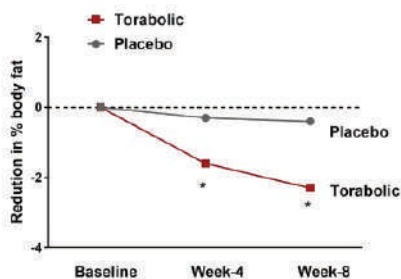
\*Statistically Significant results

### Increase in lean body mass after 8 weeks



\*Statistically Significant results

### Reduction in body fat % after 8 weeks

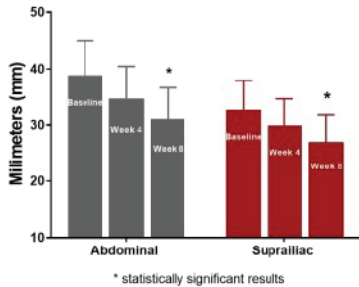


\*Statistically Significant results

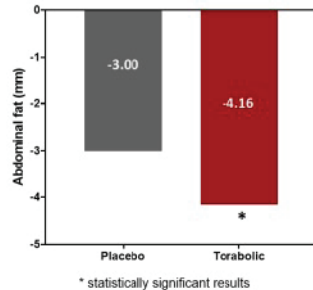
## Clinical Study 2:

A double-blind, placebo-controlled study investigating efficacy and safety of Torabolic on various fat mass related parameters.

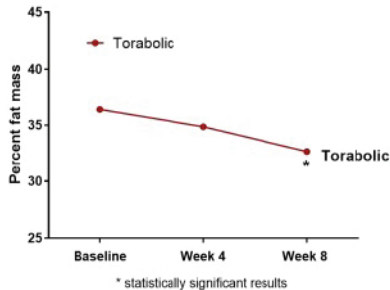
**Decrease in Abdominal & Suprailiac Skinfold Thickness (mm) after 8- Weeks of Torabolic Supplementation**



**Decrease in abdominal fat (mm) after 4 weeks**



**Decrease in % fat mass after 8 weeks of Torabolic supplementation**





**recupedrol<sup>®</sup>**

**Reduce  
Inflammation.**

**Faster  
Recovery.**

**Enhanced  
Performance.**



Recoupedrol is highly purified fenugreek extract standardized for glycosides.

It is an innovative ingredient that has been clinically shown to reduce exercise-induced inflammatory markers, arthritic symptoms and possess anti-aging properties when used as a cosmeceutical.

### USPs:

- Helps reduce exercise-induced inflammatory markers
- Human safety assessed for one year
- Improves skin elasticity, skin roughness and collagen distribution
- Backed by 3 human clinical studies, including multiple preclinical and toxicological studies
- Manufactured using only water and cane alcohol
- Non-GMO, Gluten-free, Vegan, Halal, and Kosher
- Manufactured in a USFDA inspected, cGMP facility

### Specifications:

Marker Glycoside  $\geq$  80%

### Variants:

**RECOUPEDROL**  
**RECOUPEDROL DEBITTERED**

### Health benefits:

- Joint Health
- Post-workout recovery
- Anti-aging

# Clinical Study 1 : Joint Health

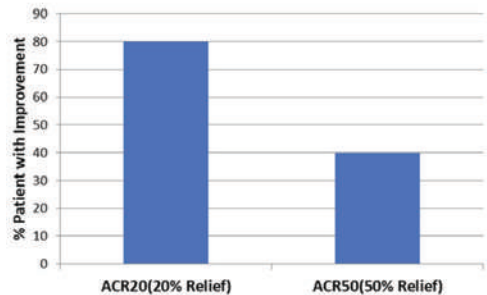
## Effects of Recoupedrol on patients with Rheumatoid Arthritis:

Recoupedrol was tested on 130 patients with Rheumatoid Arthritis in a double-blind placebo-controlled study for 3 months and followed by 9 months open label study.

### ACR20 and ACR 50:

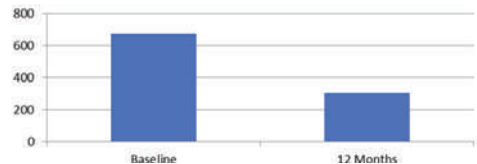
The American College of Rheumatology (ACR) Criteria measures improvement in arthritic symptoms such as pain, swelling, tenderness and stiffness.

After 12 months of treatment, 80% of the patients showed a 20% improvement (ACR20) in ACR factors like pain, tenderness, swelling and stiffness; 40% percent of the patients showed 50% improvement in the same factors.



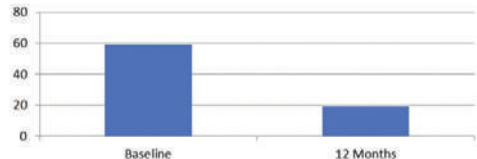
### Rheumatoid Factor

Rheumatoid factor (RF) is an auto antibody that is directed against its own tissues (for example inflammatory tissues). A higher level of RF shows greater probability of destruction of joints



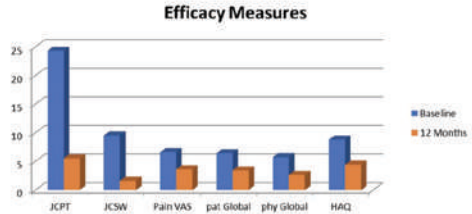
### C-reactive protein

C-reactive protein is a substance produced by the liver in response to inflammation. After 12 months of treatment the C-reactive protein reduced significantly by 68 % in patients treated with Recoupedrol.





Recoupedrol showed significant improvement in all Arthritic symptoms after 12 months treatment.

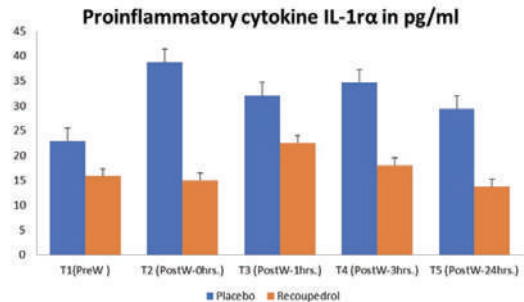


## Clinical Study 2 : Recoupedrol for post workout recovery

Effect of Recoupedrol on pro-inflammatory markers related to muscle soreness during acute eccentric resistance exercise in young subjects.

A total 20 healthy non-resistance trained young male and females were assigned to ingest either 400mg of Recoupedrol or Placebo for 14 days before the eccentric exercise bout.

Two-way ANOVA of data of IL-1ra showed significant treatment-dependent [F (1.76) = 11.81, p=0.001]. At post workout 0 hours IL-1ra serum levels significantly decreased by 5.56% in RECOUPEDROL group compared to pre-workout whereas significantly increased by 68.87% in placebo group compared to pre-workout. After 24 hours of post-workout RECOUPEDROL group shown 13.33% decrease in IL-1ra serum levels compared to pre-workout whereas placebo group shown increase of 28.08% in IL-1ra serum levels compared to pre-workout.







## Clinical study 3: Recoupedrol as a cosmeceutical for anti-aging segment

Effects of Recoupedrol evaluated on facial skin and its use in skin tolerance in women.

Anti-aging effect of Recoupedrol on facial skin evaluated in women by Monocentric, double blinded, placebo controlled, randomized parallel study.

### Method

Subjects:

A group of 50 women with an average age of 45 participated.

Groups:

Placebo (25 subjects participated and all of them completed.)

Recoupedrol (25 subjects participated and 23 of them completed.)

### Result

Recoupedrol showed significant improvement in skin elasticity, skin roughness and collagen distribution on day 30 from baseline. Whereas placebo did not show these improvements from baseline. Also, skin barrier properties are maintained on day 30 and day 60.

# SugaHeal<sup>®</sup>



Effective add on therapy for  
Blood Sugar Management

# SugaHeal<sup>®</sup>

SUGAHEAL is an innovative ingredient that has been clinically shown to support healthy blood glucose levels and HbA1c readings in type 2 Diabetes mellitus.

## Specifications:

### 4 hydroxy isoleucine

Not less than 20%

### Trigonelline

Not less than 20%

## USPs:

- Backed by 2 clinical studies
- Multiple toxicological and preclinical studies
- Water-soluble
- Non-GMO, Gluten-free, Vegan, Halal, Kosher
- Manufactured in a certified cGMP facility

## Health benefits:

- Helps maintain Glycated Haemoglobin levels (HbA1c) in the optimum range
- Helps in achieving better glycaemic control
- Leads to requiring fewer insulin doses needed per day
- Results in experiencing fewer hypoglycaemic events per day

## Safety Studies

Safety of SUGAHEAL has been evaluated in 4 different toxicological studies as per OECD guidelines.

- Acute toxicity in rats-LD50> 2000 mg/kg
- 90-day repeated dose oral toxicity in rats-No Observed Adverse Effect Level (NOAEL) at 500 mg/kg
- In-vitro bacterial reverse mutation assay (AMES Test)
  - Maximum concentration = 5000 mcg/plate
  - SUGAHEAL was found to be non-mutagenic
- Pre-natal developmental toxicity study-NPAEL-500 mg/kg/day

## Clinical Study 1:

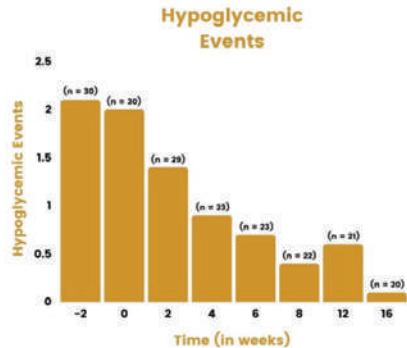
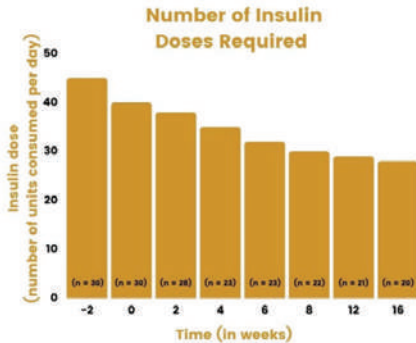
Effect and safety of SUGAHEAL as add-on therapy in patients with Type 2 diabetes mellitus on sulfonylurea (SU) therapy, 12 weeks, randomized, double blind, placebo controlled, multi-centric study.

Characteristics	SugaHeal + Sulphonylurea		Placebo + Sulphonylurea	
	Week 0	Week 12	Week 0	Week 12
Fasting Blood Sugar Level (in mg/dl)	176.55 ± 30.2	146.21 ± 47.99	172.48 ± 40.59	155.78 ± 56.19
Post Prandial Blood Sugar Level (in mg/dl)	248.17 ± 64.66	205.34 ± 66.06	242.67 ± 61.09	225.00 ± 73.36

- Results:**
- SugaHeal maintains Glycated Haemoglobin levels (HbA1c) in the optimum range.
  - Supports Healthy blood sugar level.

## Clinical Study 2:

Add-on therapy of SugaHeal in type 2 Diabetes mellitus patients with insulin therapy. An Efficacy & Safety Study.



### Results:

- Patients had improved glycaemic control.
- Decrease in levels of number of insulin doses needed per day.
- Reduction in number of hypoglycaemic events per day.



**HYPEROX<sup>®</sup>**

**Improve  
Ejection  
Fraction**





Hyperox is a Fenugreek seed extract standardized for Select glycosides. It can improve blood circulation and nutrient delivery by improving cardiac output.



## Mechanism Of Action:

Hyperox contains specific type of glycosides which may improve diastolic function of heart. Improvement in diastolic function leads to increase in cardiac output. Higher cardiac output means supply of high amount of oxygen and nutrient all over the body.

Consuming Hyperox may improve Ejection fraction rate by optimizing heart functions and there by improve better blood flow.

## Health benefits:

- Pre-workout
- Nutrient Delivery

## Specifications:

### **HYPEROX**

Select Glycosides  $\geq 30\%$

**Taste Masked HYPEROX**

Available for Ready-to-Mix



## USPs:

- Accelerates Nutrient Delivery
- Sensory Affect - Feel after the first dose
- Soluble in water
- Manufacture using only water and cane alcohol
- NON-GMO
- Gluten-free, Vegan, Halal, Kosher





**BIOCREAT™**

**MAKE CREATINE  
MORE BIOAVAILABLE**

# BIOCREAT™

Biocreat is a standardized Fenugreek seed extract that has been clinically proven to significant improvement in strength and body composition in combination with creatine. It offers all advantages of creatine but without the extra sugar and calories.

## Specifications:

Total amino acid  $\geq 20\%$

Trigonelline  $\geq 15\%$

## USPs:

- Clinically Proven
- Published University Study
- Increases Strength and Power
- Increases Lean Muscle Mass
- Highly Standardized
- Evaluated head-to-head vs creatine + 75g sugar
- Outperforms Traditional Creatine Dosing
- No Sugar No Loading Required No Crash
- Gluten-Free Vegan Halal Kosher
- Non-GMO Project Verified
- Taste-masked variant for powder mixes also available

## Health benefits:

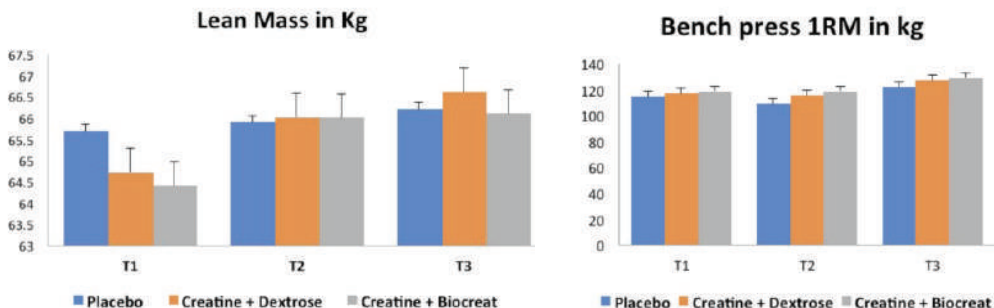
- Enhances strength and power output
- Boosts the bioavailability of creatine in muscle cells
- Promotes the development of lean muscle mass





## Clinical Study:

Effect of combined Creatine + BIOCREAT vs Creatine + carbohydrate supplementation on resistance training adaptations.



Creatine plus Biocreat supplementation shows significant impact on body composition and strength.

The creatine with Biocreat supplementation may be an effective option for creatine bioavailability while eliminating the need for excessive amount of high glycaemic carbohydrates.



**serocen<sup>®</sup>**

**More Serotonin.  
Less Cortisol.**



# serocen<sup>®</sup>

Serocen is a highly purified Centella Asiatica L. extract standardized for specific Triterpenoid glycosides. Centella Asiatica L. has been used as a food and medicinal herb for thousands of years in India, China, Srilanka, Nepal and Madagascar.

## Specifications:

### Asiaticoside

15 – 50%

### Madecassoside

25 – 50%

### Asiaticoside & Madecassoside

Not less than 50%

## USPs:

- Patented Product
- Excellent for stress hormone cortisol management
- Sourced from the highest quality Centella cultivated in Madagascar
- High Asiaticoside and Madecassoside content
- Manufactured using only water and cane alcohol
- Water-soluble, Non-GMO, Gluten free, Vegan
- Halal and Kosher certified

## Health benefits:

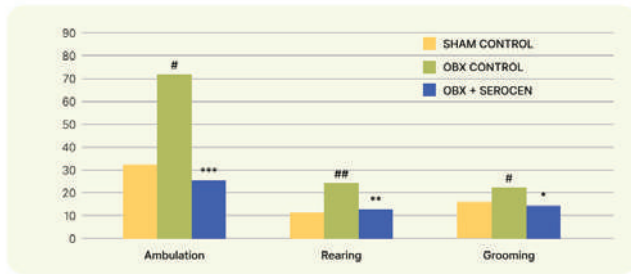
- Anti-stress
- Anti-inflammatory
- Antiaging



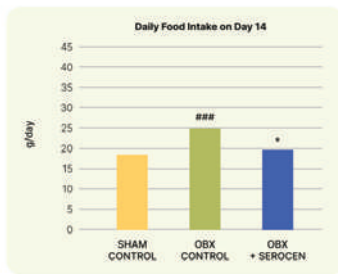
## Scientific Studies:

Pre-Clinical Study - Effect of SEROCEN in olfactory bulbectomy (OBX) model

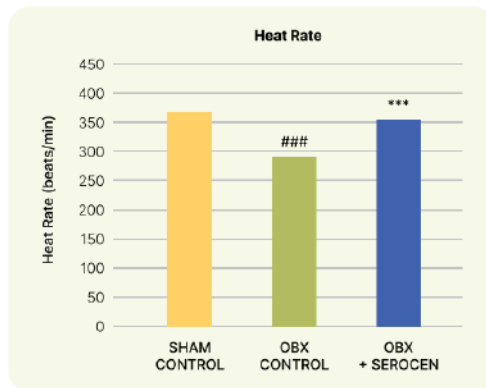
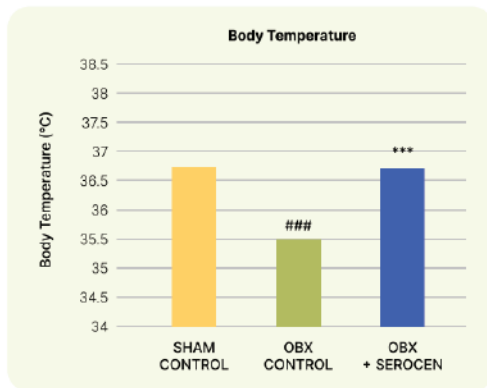
Effect on daily food intake



Effect of 14 days administration of SEROCEN (30mg/kg) in OBX rats on Anxiety Parameters

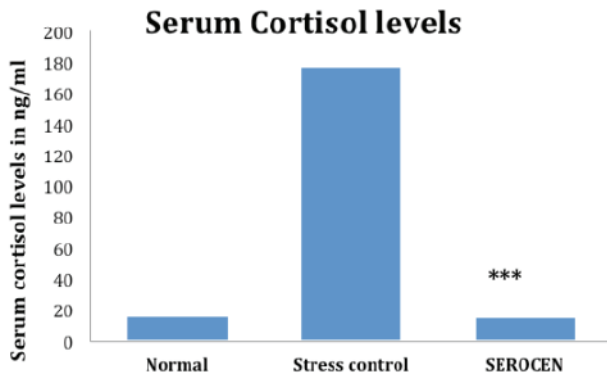


SEROCEN shows normalization of daily food intake induced by OBX



SEROCCN group shows normalization of Hypothermia and Heart rate induced by OBX

## Effect of Serocен on serum cortisol levels in rats with isolation induced depression



A graphic element consisting of a grid of dots in shades of blue and yellow, arranged in a shape that resembles a funnel or a cluster of particles, positioned above the 'Mor' part of the brand name.

**BreathMor**®

Breathe Easy with BreathMor



BreathMor is a novel proprietary patented nasal spray containing a standardized extract from cinnamon bark, designed to alleviate symptoms of Allergic Rhinitis, enhance quality of life, and improve work productivity.



## USPs:

- Listed complementary medicine in Australia
- Approved Ayush product in India
- Clinically proven
- No added sugar, gluten or lactose
- No dryness of nose
- No drowsiness or loss of sensation
- No ear blockage
- No corticosteroids
- Has no effect on sleep pattern
- Has no effect on sense of smell
- NPN in Canada

## Health benefits:

- Improved quality of life and work productivity
- Reduced nasal and eye symptoms
- Reduced non-hay fever symptoms
- No rebound congestion



## Clinical Studies

Two Clinical Studies, including one in Australia, using double blind placebo-controlled design have been conducted on BreathMor.

### Scientific Study Outcomes:

- In both clinical studies, significant improvement was found in relief from symptoms of hay fever.
- It was shown to improve work productivity and significant reduction in non-hay fever symptoms (fatigue, tiredness, headache, thirst, poor concentration, and exhaustion) in hay fever patients.
- Found safe in GLP laboratory studies.
- Acute intranasal toxicity > 100 microliter/rat
- 28-day repeated dose intranasal toxicity > 100 microliter/rat





**FenuSmooth<sup>®</sup>**  
Eleutheroside-C Complex







FenuSmooth is a new dual action Phyto-complex derived from nutrient-rich Fenugreek seeds. It is forged from an advanced extraction technology applied to an ancient Ayurvedic botanical.

FenuSmooth is a first-of-its-kind Eleutheroside-C + Oligosaccharide Complex isolated naturally via proprietary Natrusolate technology.

## Specifications:

### Eleutheroside-C

FenuSmooth's main driver with unique two-way mechanism:

- Maintains Collagen production by the reduction of matrix metalloproteinase.
- Maintains skin mechanical barrier function & moisture by increasing tight junction proteins.

### Oligosaccharides

Raffinose and Stachyose provide noted skin activity:

- Raffinose promotes autophagy and protects the skin from photo-aging.
- Stachyose promotes optimal keratinocytes differentiation.

## USPs:

- 100% Vegan, Cruelty-free and non-GMO
- Gluten-free
- Halal and Kosher certified
- Phthalates-free
- Plant derived
- Microbial and heavy metal tested



## Health benefits:

- Clinically proven to reduce wrinkles by 25%
- Increases moisturization and evens the facial skin tone
- Reduction of the enzyme responsible for collagen
- Significantly firmer & tighter skin
- Visible improvement in skin glow, smoothness, and softness

## Application:

### Cream

- Oil in water formulation
- Concentrations: 1%, 2%, and 3%

### Serum

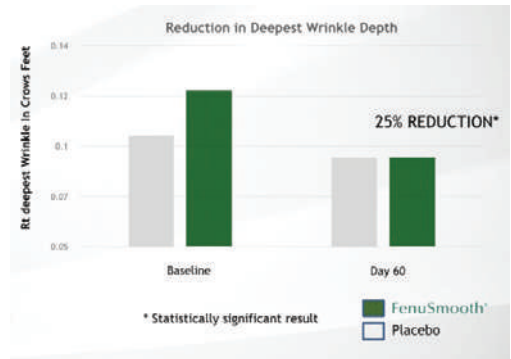
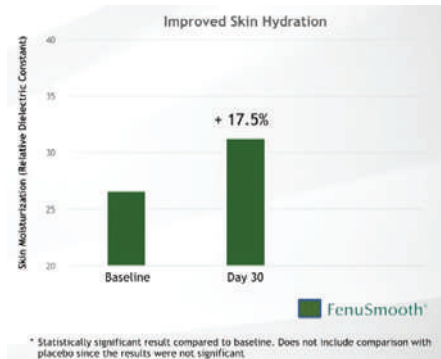
- Aqueous base formulation
- Concentrations: 1%, 2%, and 3%

# Clinical Studies

Monocentric, double blinded, placebo controlled, randomized parallel human study conducted to study Eleutheroside mechanism of action:

- Anti-wrinkle action.
- Maintaining skin barrier function and moisture.

## Clinical Study Outcomes:



### Skin moisturization result:

FenuSmooth

25% reduction in Rt ( $P < 0.05$ )

Placebo

10% reaction in Rt (Not significant)

### Wrinkle reduction result:

FenuSmooth

$p < 0.05$

Placebo

Not significant



**MINTNEXT<sup>®</sup>**

Highly Pure Rosmarinic  
Acid from Mint





# MINTNEXT<sup>®</sup>

Highly Pure Rosmarinic  
Acid from Mint

Mintnext is a purified Mint (*Mentha arvensis* L.) extract series standardized for Rosmarinic acid.

*Mentha arvensis* is an ancient medicinal herb used in traditional medicinal system and various food preparations across India.

## USPs:

- High Rosmarinic acid content
- Manufactured using only water and cane alcohol
- Potent antioxidant activity
- Water soluble
- Non-GMO, Gluten free, Vegan
- Halal and Kosher Certified

## Variants & Specifications:

### **MINTNEXT RA 5%**

Rosmarinic Acid NLT 5%

### **MINTNEXT RA 15%**

Rosmarinic Acid NLT 15%

### **MINTNEXT RA 25%**

Rosmarinic Acid NLT 25%





## Health Benefits:

- Cognitive Health
- Anti-inflammatory
- Antioxidant
- Food preservation

## Science and Research:

### Role in pain management:

Scientific studies suggest that Rosmarinic acid helps due to its potent anti-inflammatory property.

### Role of Rosmarinic acid in Cognitive Health:

Cognitive impairment is a major component of age-related dementing diseases and it has been suggested that it could share the same pathological pathways with neurodegenerative processes and cerebrovascular lesions. Overproduction of free radicals due to age, smoking, diabetes, obesity etc. causes neuronal damage\*. Rosmarinic acid has potent radical scavenging activity which may help in cognitive health.

## **Role of Natural antioxidant in food preservation:**

Meat and Food: Natural antioxidant helps to extend the shelf life of meat and food products by preventing bacterial growth and oxidation of fat and protein\*.

Edible Oils & Fats: In order to prevent rancidity and to extend storage period of animal and vegetable oils and fats, there is a need to add a certain amount of antioxidants. Natural antioxidant is being studied for the role in prevention of rancidity of oil due to its good antioxidant activity\*.

## Quality Certifications:



MONASH  
UNIVERSITY  
LOW FODMAP  
CERTIFIED™



INGREDIENT

## Application:

Our ingredients are suitable for health products in the form of:

- Capsules
- Tablets
- Beverages
- Cosmetics
- Bars
- Gummies
- Drink Mixes
- Dissolving Strips
- Sachets
- Transdermal Patches
- Gel



# natrusolate®

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