

GlucoVantage®: A Gentle Solution for Metabolic Health

 nnbnutrition.com/glucovantage-a-gentle-solution-for-metabolic-health

[GlucoVantage®](#) (dihydroberberine), is a leading choice among those looking to enhance their metabolic health naturally. This supplement is particularly beneficial for individuals seeking supplements to lower blood pressure and supplements to lower cholesterol, making it a versatile addition to your wellness routine. By helping to reverse insulin resistance, GlucoVantage® supports the maintenance of healthy blood sugar levels, a crucial aspect of metabolic balance.

The image features the letters 'A' and 'B' in a large, bold, white, sans-serif font. The letters are slightly shadowed, giving them a three-dimensional appearance as if they are floating or standing on a dark blue surface. The background is a solid, dark navy blue.

One of the standout features of GlucoVantage® is that unlike traditional berberine, it is designed to be easier on the digestive system, making it an excellent option for those with sensitive digestion. While it does not directly act as a gut health supplement, its mild nature means it is less likely to cause digestive discomfort, allowing you to focus on your metabolic goals without the worry of gastrointestinal issues.

Incorporating GlucoVantage® into your daily regimen can help you support healthy blood sugar levels and enhance your overall metabolic health without compromising digestive comfort. As a dietary supplement ingredient, GlucoVantage® is an excellent choice for brands and contract manufacturers looking to provide effective solutions for fat loss, fat loss extreme, and the best fat loss supplement on the market. Additionally, as a [dihydroberberine supplier](#), NNB provides a reliable option to enhance your product offerings and meet the growing demand for metabolic health solutions.

NNB Nutrition - GLUCOVANTAGE

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GLUCOVANTAGE

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80+ Patents

100+ Ingredients

Clinical Support

Preparation

Microbial Fermentation

Enzymatic Conversion

Plant Extraction

Organic Synthesis

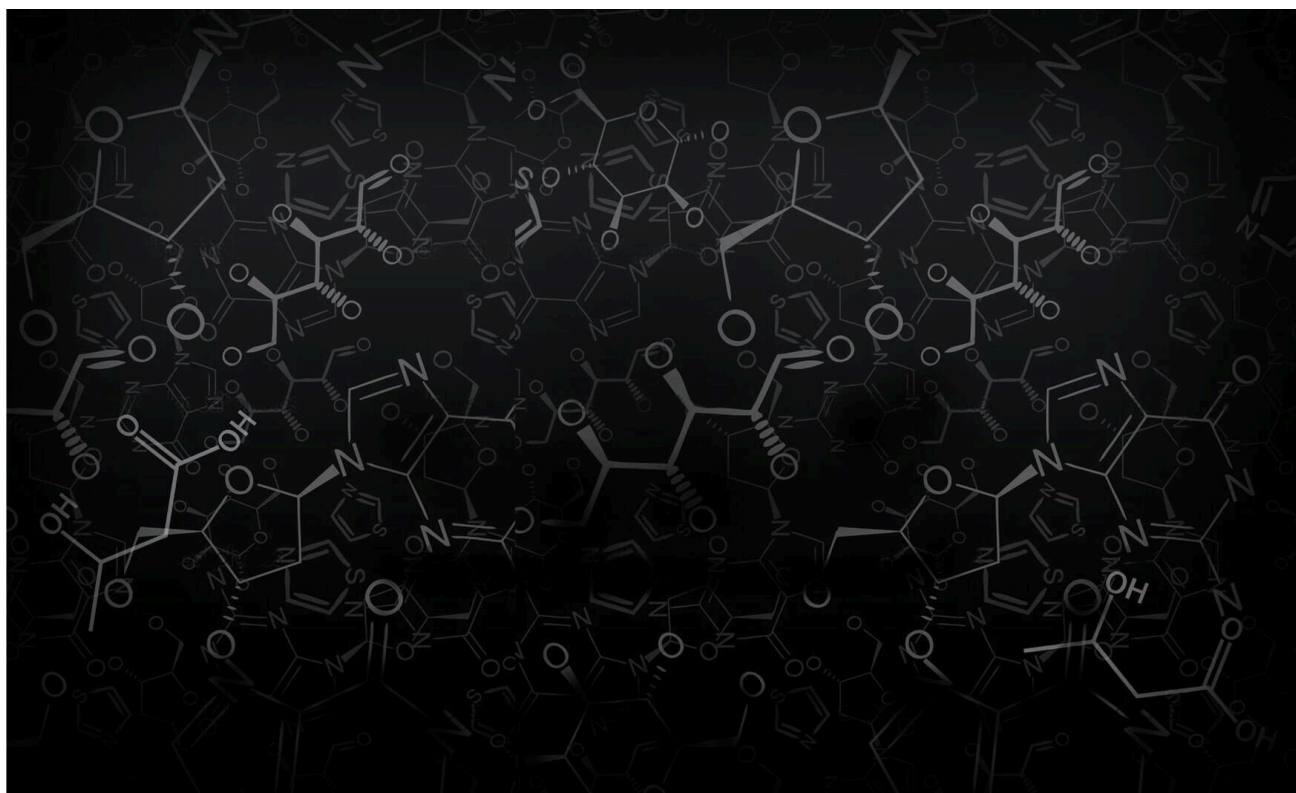
70+ Scientists



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Ingredientology



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Ingredient Revolution

The Unfair Advantage for Brands and Manufacturers

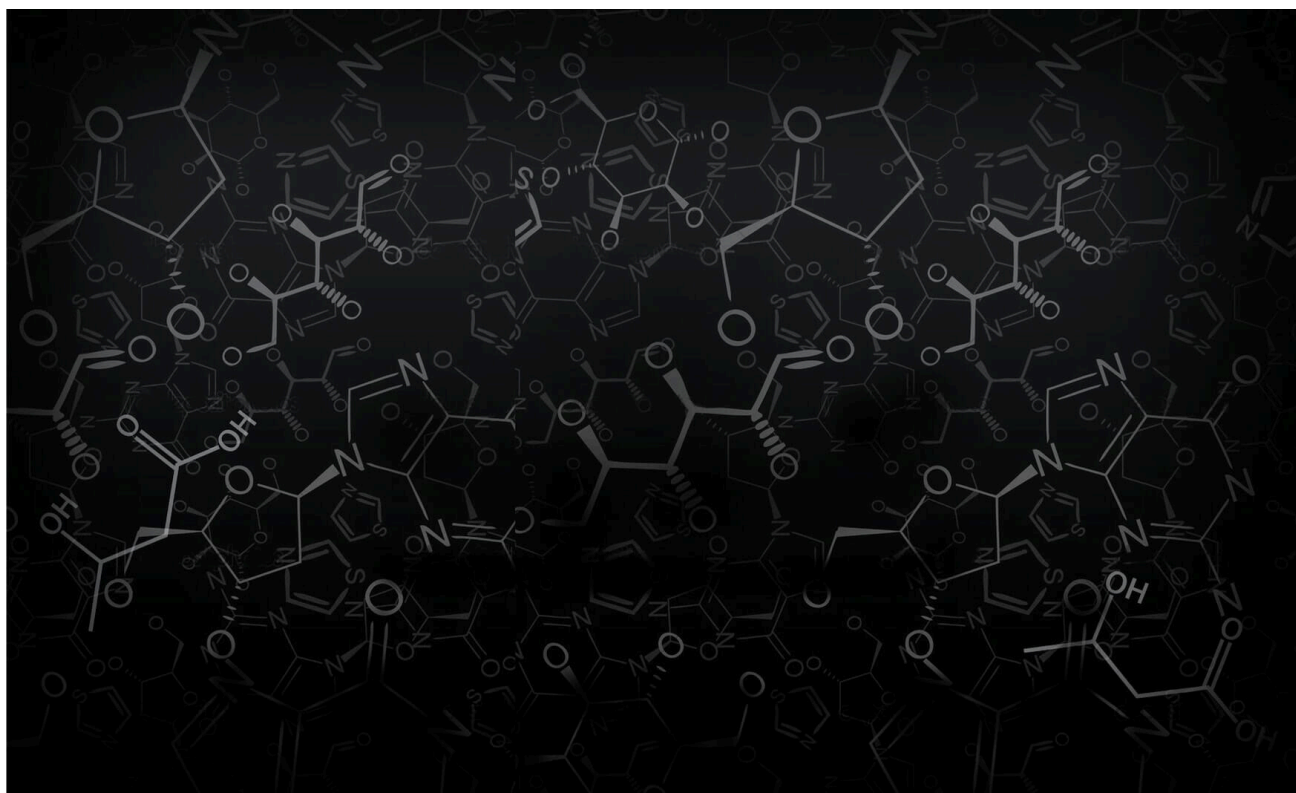
Les amateurs de casino en ligne trouvent en [crésus casino](#) une réponse moderne à leurs attentes. L'assistance francophone est disponible 24 heures sur 24 par chat en direct. Les statistiques personnelles consultables en ligne aident à mieux comprendre ses habitudes de jeu. Les amateurs de jeux télévisés retrouvent leurs formats préférés adaptés au monde du casino en ligne. La page d'accueil met en évidence les jeux populaires et les promotions du moment. Les tours gratuits offerts à l'inscription permettent de découvrir les machines vedettes sans risque. Les flux vidéo en haute définition garantissent une qualité d'image irréprochable. L'expérience nomade est aussi complète que la version bureau, sans aucune fonctionnalité retirée. La licence détenue par la plateforme garantit le respect des règles

internationales applicables. Les dépôts sont crédités instantanément, permettant de commencer à jouer sans aucun temps d'attente. Le délai moyen de réponse en chat est inférieur à deux minutes en heure de pointe. Les classements en temps réel permettent de suivre la progression dans chaque compétition. Les machines à sous à thème historique ou mythologique enrichissent particulièrement le catalogue. Les filtres de recherche affinent les résultats par catégorie, fournisseur ou volatilité. Les codes promotionnels offerts ponctuellement débloquent des avantages supplémentaires. Les game shows en direct comme les jeux de roue géante créent une atmosphère unique. Le mode portrait comme le mode paysage sont parfaitement supportés pour le confort visuel. Les transactions sont contrôlées par un système anti-fraude en temps réel. Les bordereaux de transaction restent consultables à tout moment dans l'espace personnel. Le support technique est compétent et résout efficacement les éventuels problèmes rencontrés. Les outils analytiques disponibles dans le compte aident à mesurer la performance globale. Le souci du détail apparent à chaque écran mérite d'être souligné comme un véritable atout. Tout est réuni pour passer des moments agréables dans un cadre sécurisé et divertissant.

NNB Nutrition - Patents

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Patents



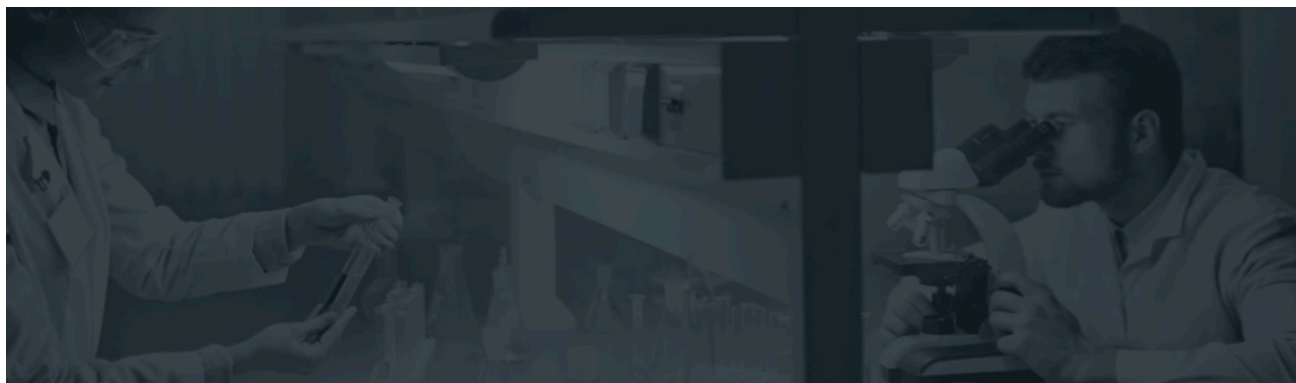
[Watch on YouTube](#)

Le concept développé par <https://casinospistolo.fr/> se nourrit des dernières tendances du secteur du gaming. Le casino en direct propose des tables de roulette, blackjack et baccarat animées par des croupiers professionnels. Les tickets envoyés par e-mail reçoivent une réponse circonstanciée dans des délais courts. L'écosystème complet répond aux attentes des joueurs occasionnels comme des plus aguerris. La page d'accueil met en évidence les jeux populaires et les promotions du moment. Le programme VIP comprend plusieurs paliers progressifs avec des avantages cumulables. Les générateurs de nombres aléatoires sont audités par des organismes indépendants reconnus. Les variantes de baccarat en direct incluent la version Speed et le Squeeze pour les habitués. Les sessions sont conservées même en cas de changement de réseau pour éviter toute interruption. Les solutions de paiement mobile telles qu'Apple Pay et Google Pay sont prises en charge. Les game shows interactifs apportent une dimension spectaculaire inspirée des émissions télévisées. Une foire aux questions très complète couvre la majorité des sujets sans intervention humaine. Les options de mise progressive accompagnent les joueurs qui souhaitent monter en gamme

prudemment. Le mode sombre reposant pour les yeux convient particulièrement aux sessions prolongées. Le calendrier promotionnel évolue régulièrement avec des opérations thématiques tout au long de l'année. Les politiques de confidentialité respectent les standards européens en matière de protection des données. Les limites de mise sur les tables live s'adaptent aussi bien aux petits joueurs qu'aux high rollers. L'authentification biométrique simplifie la connexion depuis les téléphones compatibles. Les seuils de dépôt et de retrait restent flexibles afin de s'adapter à différents profils de joueurs. Les amateurs de jeux télévisés retrouvent leurs formats préférés adaptés au monde du casino en ligne. Cette plateforme a réussi le pari de rendre le casino en ligne accessible, agréable et sûr pour tous. Tout est réuni pour passer des moments agréables dans un cadre sécurisé et divertissant.

NNB Released its Safety Assessment of GlucoVantage® (DHB)

 nnbnutrition.com/nnb-released-its-safety-assessment-of-glucovantage-dhb-including-the-bacterial-reverse-mutation-test-the-mouse-lymphoma-assay-and-the-in-vivo-micronucleus-test



GlucoVantage® is the first commercially available brand of Dihydroberberine (DHB), the most active metabolite of berberine.

On 11 July, 2022, a toxicological assessment of GlucoVantage® (Dihydroberberine) was published by NNB on Elsevier, the authoritative academic journal. This study were conducted at Vedic Lifesciences, Pvt. Ltd., Mumbai, India. All studies were sponsored by NNB Nutrition, 90-day sub-chronic toxicity study with a 28-day recovery period the NOAEL for GlucoVantage® was found to be 100 mg/kg bw/day, which was the highest dose tested. None of the animals in the study died prematurely and noclinical signs were associated with GlucoVantage®, indicating that GlucoVantage® is safe to use in human and exhibited greater bioavaiiability than BBR.

This assessment described the first toxicology study published on GlucoVantage®. An acute oral toxicity study in female Sprague Dawley rats determined that the LD50 of GlucoVantage® was greater than 2000 mg/kg bw. GlucoVantage® was described as Class 5, i.e., having relatively low acute oral toxicity, based on the Globally Harmonized System of Classification and Labelling of Chemicals. A 14-day dose range finding oral toxicity study in male and female Sprague Dawley rats found that the maximum tolerated dose of GlucoVantage® was 120 mg/kg bw, which was the highest dose tested. In a 90-day sub-chronic toxicity study with a 28-day recovery period the NOAEL for GlucoVantage® was found to be 100 mg/kg bw/day, which was the highest dose tested. None of the animals in the study died prematurely and no clinical signs were associated with GlucoVantage®. Differences in body weight were considered incidental due to the lack of a doseresponse relationship. Increases in feed consumption for males and females were sporadic, did not exhibit a dose-response

relationship or correlate with changes in body weight, and as a result, were considered incidental. All of the evidence proved that GlucoVantage® is safe to be taken orally and appears to be no more toxic than BBR, despite its substantially greater bioavailability.

GlucoVantage® (DHB) is a highly bioavailable metabolite of berberine. Essentially, gut microbes reduce berberine into its body-ready form DHB, which is then converted back to berberine after intestinal absorption. Compared to berberine, GlucoVantage® has 5-fold higher intestinal absorption rate, which is due to the fact that berberine has to first be converted to DHB by gut microbes. In essence, GlucoVantage® overcomes the shortcomings of berberine's poor oral bioavailability. In addition, it's been shown that oral administration of antibiotics further suppresses berberine absorption via decreased levels of intestinal microbes, resulting in lower levels of berberine in the blood, which ultimately reduces efficacy. Simply put, GlucoVantage® is the body-ready form of berberine. While GlucoVantage® works similarly to berberine in terms of stimulating both glucose uptake and AMPK, more importantly, GlucoVantage® can work at lower doses because it bypasses the rate-limiting step of microbial reduction of berberine. GlucoVantage® has been shown to reduce adiposity and improve insulin sensitivity, which helps support healthy glucose tolerance and glycemic control. GlucoVantage® has greater anti-inflammatory, anti-atherosclerotic and hypolipidemic activities than berberine, and it is considered to be more conducive to supporting cardiovascular, metabolic and cerebrovascular health.

Claims of GlucoVantage®

Highly bioavailable form of berberine (up to 5x more effective) Less potential GI distress than berberine Requires 1/3 the mg dose of berberine Non-GMO and derived from natural berberine More Insulin Sensitivity, Glucose Disposal Patented Ingredient

The Super Berberine 5x More Bioavailable

 nnbnutrition.com/ingredients/gluco-vantage

GLUCO
VANTAGE®

The Super Berberine 5x More Bioavailable

Glucose Optimization

Gut Health

Keto Support

Longevity

Low Carb Supplement

Weight Management

Testimonials

Customer

Social Media

I just want to thank you, from the bottom of my heart, for showing me GlucoVantage. Since I started to take it 2x a day, I got leaner, stronger, bigger pumps in the gym, feel healthier abd so much more. And all of what wgile eating 3750 kcals a day. Thank you so much for spreading your knowledge. This is one of the rare supplements that finally WORKS!!! I'm so happy.

Leviathan Nutrition, USA

"We received the product containing the Newbiome and seems to be working well so far, definitely am pleased with the lack of odor using this Ingredient!"

PricePlow

I personally tested the product and 200 mg is really working very well, yet 100 mg is also not bad. Only first day I had some little headache, but from the second day with using 200mg before meals I felt the energy in my brain and my blood glucose did not went up to much after the meals. At that levels product seems to work exactly same with 1000mg or 1500mg of normal berberine I am sure of it.

PysNuorenay

Still very excited about DHB. It really is the "Berberine 2.0". We're super excited for it. It seems to perform better than metformin and normal berberine in our experience

SugarMDs

Hi I have published a Dihydroberberine article. I can give the article to you with backlinks to our website. We will also order some soon

Elevate

To be clear, your product doesn't taste bad. My CEO tried it and he is very dramatic about flavors and he found it to be bland with very little aftertaste. I tried regular BB previously and I will NEVER try it again. Looking forward to trying a sample of our supplement with the dihydroberberine in it!!!

Dr. Olli

Hi there :)

I'd like to give amazing feedback on dihydroberberine. For what I have noticed from using it on a daily basis is that all the carbs I eat go into muscles (zero stored as fat). I simply notice it after feeding 100-200g of carbs I don't get bloated or fluffy, rather more pumped and full. That is incredible! So this stuff is for real. I have also been in contact with Shawn and we will do some kind of project with him in the future.

Mary Ellen

That's great news about the DHB coming to Canada. I'll look forward to that. I think I lost some Weight with the DHB which is why I want to continue.

Customer

Social Media

I just want to thank you, from the bottom of my heart, for showing me GlucoVantage. Since I started to take it 2x a day, I got leaner, stronger, bigger pumps in the gym, feel healthier abd

so much more. And all of what while eating 3750 kcals a day. Thank you so much for spreading your knowledge. This is one of the rare supplements that finally WORKS!!! I'm so happy.

Leviathan Nutrition, USA

"We received the product containing the Newbiome and seems to be working well so far, definitely am pleased with the lack of odor using this Ingredient!"

Suggested Stacking

Where To Buy



GNC
LIVE WELL



THE VITAMIN SHOPPE®

ebay

iHerb®

We Are NNB

 nnbnutrition.com/about



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At NNB, we're more than creators of **new and novel ingredients**; we're architects of **enduring relationships** founded on genuine collaboration and synergy.



Warehouse in California

**Subsidiary in California
Ingredientology Inside, LLC**

Warehouse in Texas

**Subsidiary in Hong Kong
Ingredientology (HK) Limited**

Factory in Anhui

**Subsidiary in Shanghai
EXP Labs, LLC**

Full Map

**NNB's History
Our company's journey from the beginning**

WHAT WE DO

 nnbnutrition.com/true-innovation-for-brands

Watch Video



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True Innovation for Brands

Our Commitment to Innovation:

In a landscape rife with challenges like poor manufacturing practices, cutting corners and ingredients that fail testing, we recognize the imperative of staying ahead and delivering

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quality. With over 590,000 square feet of manufacturing space and a global team of over 100 scientists, we can tailor ingredients to your needs or create blends of your formula in house and ready to ship to your manufacturer to lower your order quantities and testing costs with them. This can also reduce lead times or issues with a single ingredient shipping late from another supplier. We understand the frustration of being left behind and are determined to propel you to the forefront of innovation with over 100 ingredients created and improved upon to date. Many of which were the result of providing solutions for our customers to improve potencies or reduce clumping.



When you partner with us, we become your unfair competitive advantage in your journey towards success. Our aim is simple: to create ingredients you can trust and innovations that set you apart so your brand can truly deliver for your customers. Say goodbye to products that fail testing, clump or have a lack of innovation – with us, you're in safe hands.



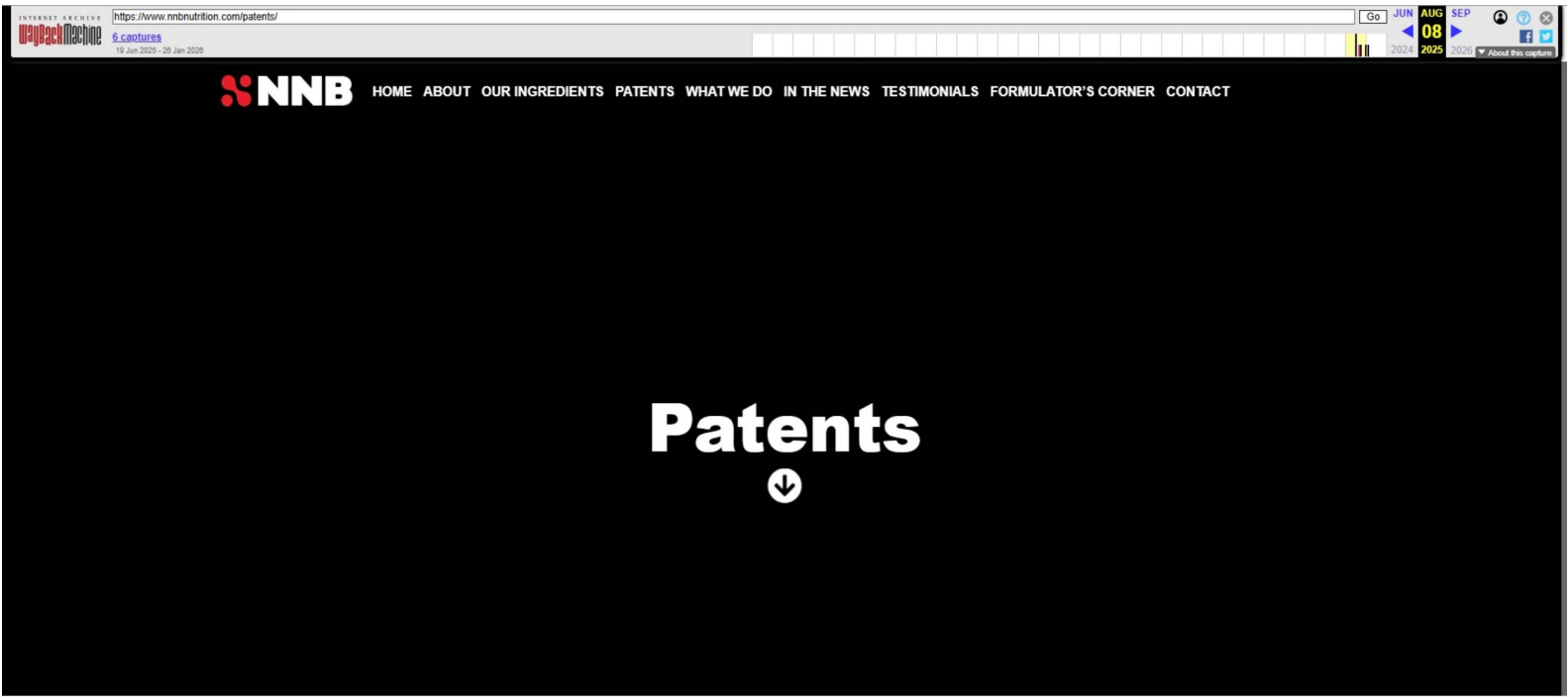
Through collaborative discussions and a deep understanding of your needs, we pave the way for your success. Whether it's revolutionizing existing products or spearheading new innovations, we are here to guide you every step of the way. Together, we can transform your brand from a mere player into a market leader.

In this context, Medilux represents a clinical perspective on human health optimization, where innovation is not limited to ingredients or performance enhancement, but also extends to medical support for sustainable weight management. Through online doctor consultations, the Finnish [clinic](#) helps patients assess BMI, understand obesity-related risks, and approach obesity treatment in a structured, medically guided way. This connects naturally with the broader mission of improving human health, longevity, and quality of life through responsible, evidence-based solutions.

Ready to embark on a journey of innovation and success? Reach out to us today to discuss your new ideas or how we can enhance your existing products. Let's create a future where trust, innovation, and success go hand in hand.

Let's Create Ingredients Together

[Work with Shawn and his team](#)



NNB Nutrition | Virtual Patent Marking

The following products are protected by patents in the United States, the United Kingdom and other countries. This notice satisfies the virtual-marking provisions of the America Invents Act and similar requirements in other jurisdictions, and serves as notice under 35 U.S.C. § 287(a).

Statutory Basis for International Rights

NNB Nutrition also asserts rights under the corresponding laws and conventions in these countries (among others):

- Canada: Patent Act, R.S.C. 1985, c. P-4 (as amended)
- United Kingdom: Patents Act 1977
- Australia: Patents Act 1990 (Cth)

NOTE: The list of patents related to NNB Nutrition's ingredients/products may not be exhaustive and can change. All reasonable attempts to keep this information current will be made, but the status of a patent filing may vary over time—reference this page regularly for the latest updates.

GLUCOVANTAGE	MITOBURN	GOBHB	MITOPRIME	COMPLETE GREENS / MITOGREENS
CALORIBURN	ZINJABURN	TRUSEED	EZGABA	GENIUSPURE
CURCUPRIME	FLOWTECH SERIES			

GlucoVantage® (Dihydroberberine)

Issued U.S. patents	Pending U.S. patent applications	International patents and patent applications
US12257240B2		CN115350201A
US11903932B2		CN115554295A
US10278961B2		AU2023200826B2 EP3445358B1 CA3021639A1
	US20230218590A1	WO2022083685A1 CN116194115A AU2021365292B2 EP4199930A4 CA3195029A1
	US20230133496A1	CN115645400A
	US20230138246A1	CN115554296A
		CN108997332B
	US20250195482A1	CN115317393B WO2024045809A1
		CN115414362A WO2024046208A1
		WO2024164970A1
		WO2024169688A1
		WO2025087219A1

MitoBurn® (L-BAIBA)

Issued U.S. patents	Pending U.S. patent applications	International patents and patent applications
US12171736B2	US20250009695A1	WO2022218320A1 CN117157068A EP4297742A1 AU2022258161B2 CA3215056A1
US11766416B2	US20230338318A1	
	US20240138449A1	WO2023077710A1 CN115397266A
	US20240115530A1	WO2022268049A1 EP4337187A1 CA3223282A1 AU2022298602B2 CN117561056A
	US20230113761A1	CN115606809A
	US20240252460A1	CN116059195A
	US20230028933A1	CN114729016B WO2021102737A1
		CN115851799B
		CN115192674A WO2024032090A1

GoBHB®

Issued U.S. patents	Pending U.S. patent applications	International patents and patent applications
US10428357B2 US11198890B2		CA3039255C MX411347B AU2018250146B2 CN110035991B JP7156594B2 KR102480436B1 WO2018187324A1
	US20230263753A1	CN116270519A
	US20240092722A1	WO2022247853A1 CN117396458A
	US20240190803A1	WO2022217582A1 CN115968364A
	US20240033235A1	WO2022218364A1 CN117157060A
	US20240156735A1	CN115210212B WO2022170677A1
	US20230404952A1	WO2022166956A1 CN116782884A
		CN115153005A
	US20250221948A1	WO2024067584A1 CN119968131A AU2023349489A1
		WO2024067626A1 CN119968132A
		CN116212034A WO2024120327A1

MitoPrime® (Ergothioneine); MitoReds®

Issued U.S. patents	Pending U.S. patent applications	International patents and patent applications
US11534426B1	US20230233528A1	WO2023143183A1 CN118524837A AU2023210881A1 EP4469045A1
US11491141B1	US2025073210A1	WO2023131078A1 CN118510508A AU2022430726A1 EP4460300A1
US12168001B2	US20250032456A1	WO2022268047A1 CN115210212B

	US20240285585A1	WO2023004608A1 CN117729918A AU2021457422A1
	US20240082219A1	WO2022242711A1
	US20250042860A1	WO2023201707A1 CN119032084A
	US20240382460A1	WO2023143184A1 CN116390722A
	US20240115532A1	WO2022268048A1 CN117580573A
	US20240189285A1	WO2023025101A1 CN116171162A
	US20240245649A1	WO2023056885A1
	US20230024648A1	CN114667346B WO2021102736A1
	US20250073211A1	WO2023221030A1 CN119255800A
		CN116350529B WO2024125471A1
		WO2024099303A1 CN120187427A
		WO2024179429A1
		WO2024245220A1
		WO2025051119A1
		WO2024255757A1
		WO2025002115A1
		WO2025113409A1
	US20250205201A1	CN119679149A

International patents and patent applications

CN118044620A
CN116114878A
WO2024120362A1

CaloriBurn(GP)[®]

International patents and patent applications

WO2024240211A1
CN115192674A
WO2024032090A1
US20250161396A1

ZinjaBurn[®] (Dehydrozingerone)

International patents and patent applications

WO2025011534A1

International patents and patent applications

CN117731007A
WO2024055983A1

EZGABA[®]

International patents and patent applications

CN112843002B
CN113080436B

GeniusPure® (GPC)

International patents and patent applications

WO2025036402A1

WO2024245220A1

WO2024235238A1

CN111018705A

FlowTech® Series

International patents and patent applications

WO2025103394A1

WO2025108209A1

NNB Nutrition is committed to transparency and compliance with patent marking requirements. If you have any questions about the information provided here, please contact us at Email: INFO@NNBNUTRITION.COM

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