

COMPANY PROFILE  
& PRODUCT GUIDE



Manufactured  
in Switzerland



**Linnea**<sup>®</sup>  
Natural Pharma Solutions

## MISSION

Linnea's mission is to improve the quality of life by manufacturing and supplying great natural solutions worldwide, doing business responsibly.

## COMMITMENT

Linnea is dedicated to operating with respect for the environment, the local communities, its clients and employees.

## PROMISE

Delivering premium Active Pharmaceutical Ingredients of botanical origin along with tailored technical-regulatory support and services to meet specific needs: this is Linnea's promise.

## PORTFOLIO

A selected range of botanical extracts, isolates and dilutions: your key to innovative, effective, and reliable pharma-grade natural solutions.



# MADE BY NATURE ENHANCED BY LINNEA

Building on a legacy of more than 40 years, Linnea remains at the forefront of the manufacturing of premium Active Pharmaceutical Ingredients from botanical sources.

since  
**1982**

## PIONEERING PHARMACEUTICAL MANUFACTURER

Since our founding in 1982, we have set ourselves apart through our **expertise**, dedication to **quality**, and continuous **innovation** in the field.



## WE ARE COMMITTED TO EXCELLENCE

Operating from our **GMP-certified facility in Switzerland** and with a strong emphasis on **GACP compliance**, we ensure that every ingredient meets **rigorous quality standards**, reflecting our pursuit of distinction.



## GUARANTEEING QUALITY AND RELIABILITY

Through stringent controls and standardization, our **fully validated manufacturing process** ensures **batch-to-batch consistency** at all times, guaranteeing reliable quality and performance.



# QUALITY IS OUR MEASURE OF EXCELLENCE

At Linnea, we are dedicated to advancing the development of premium Active Pharmaceutical Ingredients. To guarantee **exceptional and consistent quality**, we've crafted our own rigorous **5-step process**.

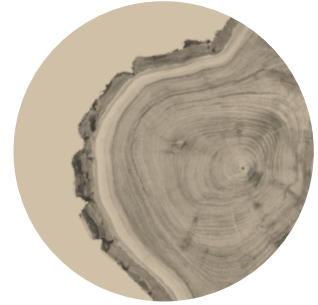




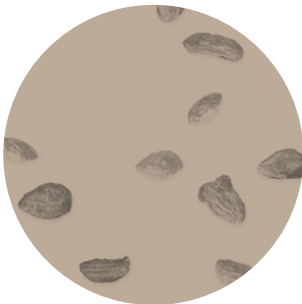
Linnea®  
Butylscopolamine



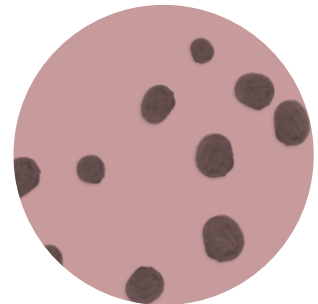
Linnea®  
Red Clover



Linnea®  
HMRLignan®



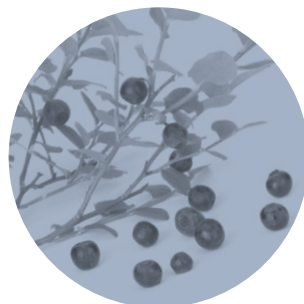
Linnea®  
Vinpocetine  
& Vincamine



Linnea®  
5 HTP



Linnea®  
Ginkgo Biloba



Linnea®  
Bilberry



Linnea®  
Cannabinoids

# Linnea® Butylscopolamine



Butylscopolamine is a peripherally-acting anticholinergic agent commonly used for its antispasmodic properties.

We have been producing our Butylscopolamine since 1985, sourcing it from the leaves of the Duboisia plant. As from 2022, this raw material is processed at our own facility in Australia.



## PRODUCT

- Semi-synthetic powder
- Purity grade 98.0% ±101.0%

### General Grade Butylscopolamine

Suitable for diverse pharmaceutical forms

### Hyject™ Butylscopolamine

Suitable for injectable pharmaceutical forms

## COMMON PHARMACEUTICAL USES



- Smooth-muscles relaxation
- Renal colic pain
- Dysmenorrhoea
- Irritable bowel syndrome

## VALUE DRIVERS

- Vertically integrated manufacturing
- Complies with Ph.Eur. «Hyoscine butylbromide» monograph, current edition
- Linnea is the official supplier to EDQM for Ph.Eur. Analytical Standard for Hyoscine butylbromide for system suitability CRS
- CADIFA certification on-going at Anvisa (BR)



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COMPLIANT

# Linnea®

## Red Clover

Red clover is a vibrant flowering plant native to Europe and Asia, and it has long been valued in herbal traditions for its rich content of isoflavones.

Linnea's Red clover ingredient can rely on a standardized fixed ratio of four main isoflavones - Formononetin, Biochanin A, Genistein, and Daidzein. The biological activity of Linnea's distinct ingredient is supported by several clinical data.



### PRODUCT

- Dry powder standardized extract
- Total isoflavone aglycones: 36,0% ÷ 44,0%

### COMMON PHARMACEUTICAL USES



- Menopause symptoms (hot flashes, heart and bone health)
- Natural alternative to Hormone Replacement Therapy

### COMMON DIETARY USES



- Women's health

### COMMON COSMETIC USES



- Anti-ageing
- Hair loss

### VALUE DRIVERS

- A distinct formula maintains a fixed ratio of the 4 main isoflavones, ensuring standardized consistency and reliability across all batches
- Linnea contributed to the USP «Red clover aerial parts isoflavones aglycones dry extract» monograph and to the preparation of the American Herbal Pharmacopoeia monograph
- Efficacy and safety validated by trials carried out with Linnea's specific ingredient
- Unique and proprietary extraction method / IP-protected seeds / Grown in European open fields
- Included in the list of botanicals allowed in food supplements shared with the health administrations of Belgium, France and Italy (BelFrt list)



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#### PLANT

Trifolium pratense L.

#### SOURCE

Aerial parts

#### APPEARANCE

Dark green, amorphous powder

#### CAS NR.

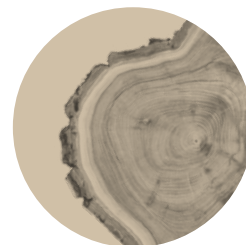
85085-25-2

# Linnea<sup>®</sup>

## HMRLignan<sup>®</sup>

Lignans are plant compounds with well-established bioactive properties, known to support vitality and resilience in plants.

Linnea's HMRLignan<sup>®</sup> is a rich source of lignans, providing a significantly higher concentration compared to typical dietary sources.



### PRODUCT

- Highly purified Norway Spruce Lignans
- 7-HMR co-crystal NLT 90%
- 7-hydroxymatairesinol in aglycone form, co-crystallized with potassium acetate

### VALUE DRIVERS

- Trademarked and patented
- New Dietary Ingredient (NDI) in the USA since 2006
- Standardized knot spruce selection
- Unique extraction method

### COMMON DIETARY USES



#### Supports

- Normal metabolism and cardiovascular function
- Normal function of the nervous system

#### Contributes to

- Cell protection from oxidative stress
- Well-being during menopause
- Normal collagen formation for bones and cartilage function

### COMMON COSMETIC USES

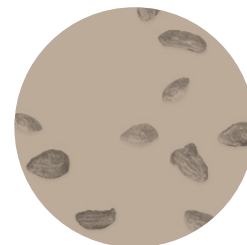


- Anti-ageing
- Soothing
- Hair loss

# Linnea®

## Vinpocetine & Vincamine

Linnea's Vinpocetine and Vincamine are extracted from the seeds of *Voacanga africana* (a plant native to sub-Saharan Africa), known for their high concentration of alkaloids.



### PRODUCTS

#### Vinpocetine

- Semi-synthetic powder suitable for oral and injectable forms (Vinject™)
- Purity grade 98.5% ± 101.5%

#### Vincamine

- Semi-synthetic powder suitable for oral forms
- Purity grade 99,0% ± 101,0%

### COMMON PHARMACEUTICAL USES



#### Vinpocetine

- Cerebrovascular disorders
- Cognitive impairment associated with cerebral vascular diseases

#### Vincamine

- Cerebral circulation modulation
- Dizziness, vertigo (Ménière disease)

### VALUE DRIVERS

- Sourced from the wild from West and Central Africa regions
- Carefully harvested seeds, ensuring minimal environmental impact
- Products comply with Ph.Eur. "Vinpocetine" and Ph.Eur. "Vincamine" monographs, current editions
- The Vincamine Ph.Eur. monograph was entirely developed by Linnea
- Linnea is the official supplier to EDQM for the Ph.Eur. analytical standards for both Vincamine and Vinpocetine
- CADIFA certification on-going at Anvisa (BR) for Vinpocetine



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### COMMON DIETARY USES



#### Vinpocetine

- Concentration and memory
- Neuroprotection and brain ageing

#### Vincamine

- Brain performance and neuroprotective effect
- Concentration and memory
- Physical performance

#### Vinpocetine

PLANT	SOURCE	APPEARANCE	CAS NR.
Voacanga africana	Seeds	White or slightly yellow crystalline powder	42971-09-5

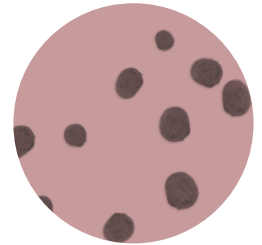
#### Vincamine

PLANT	SOURCE	APPEARANCE	CAS NR.
Voacanga africana	Seeds	White or almost white crystalline powder	1617-90-9

# Linnea® 5 HTP

Griffonia simplicifolia is a naturally occurring plant native to sub-Saharan Africa.

Isolated from its seeds, 5-hydroxytryptophan is a compound known for its ability to directly convert into the neurotransmitter serotonin, which plays a key role in mood regulation, sleep, emotional well-being and weight control.



## PRODUCT

- Isolated ingredient
- L-5- Hydroxytryptophan
- NLT 99.0% - 101.0%

## COMMON PHARMACEUTICAL USES



- Mood regulator
- Binge eating reduction
- Post-anoxic myoclonus
- Prevention of migraine and recurrent, mixed and tension headaches

## COMMON DIETARY USES



- Sleep improvement
- Promotion of positive moods and emotions
- Appetite control

## VALUE DRIVERS

- Harvested from the wild using sustainable methods
- Linnea is the sole supplier of pharmaceutical-grade 5 HTP
- Useful amino-acid for dietary regimens



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# Linnea®

## Ginkgo Biloba

Ginkgo biloba, one of the oldest surviving tree species, is the last living member of its kind—often referred to as a living fossil. It contains unique molecules and has been used for centuries in traditional wellness practices.

Rich in antioxidants, this botanical is highly valued for its distinctive properties and its significant role in herbal traditions worldwide.



### PRODUCTS

#### Ginkgo Biloba EPG 246

- Pharma grade refined and quantified dried extract
- Ginkgo flavon glycosides 22.0% ÷ 27.0%
- Bilobalide 2.6% - 3.2%
- Ginkgolides A, B and C 2.8% - 3.4%

#### Ginkgo Biloba Ethanol

- Dietary grade powdered herbal extract
- Ginkgo flavon glycosides NLT 24.0%
- Terpene lactones NLT 6.0%

### COMMON PHARMACEUTICAL USES



- Diminished mental performance
- Tinnitus
- Vertigo

### COMMON DIETARY USES



- Memory and concentration
- Minor circulatory ailments

### VALUE DRIVERS

- EPG 246 complies with Ph. Eur. "Ginkgo dry extract refined and quantified" monograph, current edition
- Included in the list of botanicals allowed in food supplements shared with the health administrations of Belgium, France and Italy (BelFrlt list)



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#### PLANT

Ginkgo biloba L.

#### SOURCE

Leaves

#### APPEARANCE

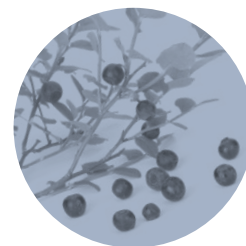
Light brown, amorphous powder

#### CAS NR.

90045-36-6

# Linnea® Bilberry

Linnea supplies high-quality Bilberry extract, derived from fruits grown in the wild in Europe and rich in antioxidants and other active ingredients.



## PRODUCT

- Refined and standardized fruit dry extract
- Anthocyanins  $\geq$  36%

## COMMON DIETARY USES



- Minor venous circulatory disturbances
- Capillary fragility
- Legs heaviness
- Vision function and eye health
- Antioxidant protection

## COMMON COSMETIC USES



- Hydration and decongestion

## VALUE DRIVERS

- Complies with Ph. Eur. "Fresh Bilberry Fruit Dry Extract, Refined and Standardized" monograph, current edition
- Included in the list of botanicals allowed in food supplements shared with the health administrations of Belgium, France and Italy (BelFrIt list).
- Uniform particle size and good solubility



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A treasure trove of Active Pharmaceutical Ingredients, deeply rooted in tradition and modern science, eager to be rediscovered.

Extracted from: *Cannabis Sativa L.*

STANDARDISED EXTRACTS IN MCT OIL			
SUITABLE FOR:	CBD 5% 50 mg/mL	CBG 5% 50 mg/mL	CBD : CBG / 2.5% - 5% 1:1 • 1:2 • 2:1 CBD 25, 50 mg/mL CBG 25, 50 mg/mL
Pharmaceuticals	●	●	Under development
Magistral preparations	●	●	●
Medical devices	●	●	●
Versatile bulk options	●	●	●
Labelled bottles*	●	●	
<b>VALUE DRIVERS</b>	<b>DMF / Patented**</b>	<b>DMF</b>	<b>Patented**</b>

STANDARDISED EXTRACTS IN MCT OIL			REFINED EXTRACT
SUITABLE FOR:	THC 1% - 5% - 25% 10, 50, 250 mg/mL	THC: CBD / 1% - 2.5% - 10% 1:1 THC 10, 25, 100 mg/mL CBD 10, 25, 100 mg/mL	THC 75% 750 mg/mL
Pharmaceuticals	●	●	●
Magistral preparations	●	●	●
Medical devices	●	●	●
Versatile bulk options	●	●	●
Labelled bottles*	Under development	Under development	
<b>VALUE DRIVERS</b>	<b>DMF / DAB compliant</b>	<b>DMF</b>	<b>DMF</b>



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GACP COMPLIANT



GID AUTHORISATION  
Certified by Swissmedic

Full traceability of raw materials | European plantations  
Certified seeds (EU database) for CBD and CBG

\* Through our qualified Contract Manufacturing partners, we offer packaging and labelling services tailored to specific needs

\*\* Patent granted in Italy (priority country) and WW application on-going

CBD: Cannabidiol | CBG: Cannabigerol | THC: Tetrahydrocannabinol

MCT: Medium chain tryglicerides Ph.Eur. | DMF: Drug Master File | DAB: «Cannabis Extractum Normatum» German Pharmacopoeia monograph



Linnea’s Cannabinoids represent the culmination of years of research, expertise and innovation with an unwavering commitment to quality.

*Purified from: Cannabis Sativa L.*

ISOLATES				DILUTIONS
SUITABLE FOR:	CBD <i>Purity grade 98-102%</i>	CBG <i>Purity grade 98-102%</i>	THC <i>Highly purified</i>	CBD 20% <i>Stabilized in MCT oil 200 mg/mL</i>
Pharmaceuticals	●	<i>Under development</i>	<i>Under development</i>	●
Magistral preparations	●	<i>Under development</i>	<i>Under development</i>	●
Medical devices	●	<i>Under development</i>	<i>Under development</i>	●
Versatile bulk options	●	<i>Under development</i>	<i>Under development</i>	●
Cosmetics	●	<i>Under development</i>		●
Labelled bottles*				●
VALUE DRIVERS	DMF / Ph.Eur. CEP on-going			Patent pending >24-month stability



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GACP COMPLIANT



GID AUTHORIZATION Certified by Swissmedic

Full traceability of raw materials | European plantations Certified seeds (EU database) for CBD and CBG



Linnea NioSkin® is a cosmetic technology based on Niosomes delivery systems, containing **two strengths of CBD isolate**, designed to boost the skin’s absorption of natural active ingredients.

NIOSKIN® NIOSOME	
SUITABLE FOR:	CBD 1% and CBD 5%
Cosmetic preparations	●
VALUE DRIVERS	Patent granted (US/Europe/CO/TH) Clinically proven soothing properties Tolerability dossier available Used in finished products worldwide



\* Through our qualified Contract Manufacturing partners, we offer packaging and labelling services tailored to specific needs

CBD: Cannabidiol | CBG: Cannabigerol | THC: Tetrahydrocannabinol

MCT: Medium chain tryglicerides Ph.Eur. | DMF: Drug Master File | CEP: Certificate of Suitability to the Monographs of the European Pharmacopoeia

# SUSTAINABILITY & GREEN SPIRIT



At Linnea, we hold ourselves to the highest standards of ethics, quality, and environmental responsibility, with **ESG principles** embedded across our operations.

## A VALUES-BASED JOURNEY

As a signatory of the **UN Global Compact** and a proud **EcoVadis**-rated company, we are dedicated to building a more sustainable, transparent, and purpose-driven future.

WE SUPPORT



## SUSTAINABILITY REPORT

In 2025, we published our second **Sustainability Report**, outlining our goals, progress, and tangible actions – from responsible sourcing and ethical business practices to minimizing our ecological footprint.

To further reduce our carbon dioxide emissions and energy consumption, we actively adhere to the **Swiss Private Sector Energy Agency Program**, reinforcing our commitment to measurable climate action.



## GIVING BACK TO MOTHER NATURE

One of our standout initiatives is our collaboration with local farmers in the Swiss canton of Ticino, where we co-developed a **biogas plant**.

This **circular solution** transforms organic waste into clean, renewable energy, significantly reducing landfill use while generating heat and electricity.



## AGRIHEALTH PROJECT

As a participant in the **AgriHealth Project**, we also promote sustainable agriculture, biodiversity, and innovation in the phytopharmaceutical sector.





TRUST AND EXPERIENCE



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GMO FREE



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GREEN SPIRIT



HACCP INTERNATIONAL STANDARDS COMPLIANT



VEGAN



ALLERGEN FREE



HALAL



KOSHER



LINNEA'S 5 STEPS OF CERTIFIED EXCELLENCE



FOCUS ON RESEARCH



SHORT SUPPLY CHAIN



COUNTRIES REACHED



CLIENTS PER YEAR



GID AUTHORIZATION Certified by Swissmedic



KNOWN CONSIGNOR Certified by Aviasecure

PLEASE NOTE THAT THIS DOCUMENT IS NOT MEANT FOR CONSUMERS, AS THE INFORMATION CONTAINED HEREIN DOES NOT REFER TO FINISHED PRODUCTS.

THE IMAGES ARE FOR ILLUSTRATIVE PURPOSES ONLY AND MAY NOT REPRESENT REALITY.

LINNEA® CANNABINOIDS IS A PROJECT BY LINNEA SA.

BE SURE TO CHECK THE LAWS REGULATING CANNABIS IN YOUR COUNTRY AND/OR THE COUNTRY WHERE THE PRODUCT IS TO BE SOLD.

THE COMMUNICATION ON THC PRODUCTS IS NOT INTENDED FOR THE GENERAL PUBLIC AND THE PRODUCTS CONTAINING A LEVEL OF THC HIGHER THAN 1% ARE SUBJECT TO SUPERVISION UNDER THE SWISS FEDERAL LAW ON NARCOTIC SUBSTANCES.

INFORMATION ON THC INGREDIENTS WILL BE PROVIDED ONLY TO HEALTHCARE PROFESSIONALS AND BUSINESS PARTNERS UPON REQUEST, AND ONLY WITHIN THE FRAMEWORK OF LEGAL AND PROFESSIONAL STANDARDS.

LINNEA'S HANDLING OF CANNABINOID INGREDIENTS IS FULLY COMPLIANT WITH INTERNATIONAL IMPORT/EXPORT REGULATIONS FOR CONTROLLED SUBSTANCES.

AUDITED BY REGULATORY AUTHORITIES: SWISSMEDIC / ANVISA

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