



GMP SITE CERTIFIED



GACP COMPLIANT



TRUST AND EXPERIENCE



LINNEA'S 7 STEPS OF CERTIFIED EXCELLENCE



GREEN SPIRIT

Manufactured in Switzerland

AT LINNEA, WE STRIVE TO LEARN THE LESSONS MOTHER NATURE HAS TO TEACH US, AS WE USE CUTTING-EDGE TECHNOLOGY TO TURN BOTANICAL RAW MATERIALS INTO EFFECTIVE PRODUCTS THAT WILL IMPROVE PEOPLE'S LIVES.





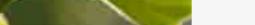
MADE BY NATURE, ENHANCED BY LINNEA

FROM HARVEST TO CUSTOMER, LINNEA GUARANTEES SUSTAINABILITY AND QUALITY WHILE APPLYING SWISS TECHNOLOGY TO EFFECTIVE NATURAL INGREDIENTS



QUALITY

Since 1982, Linnea is committed to the development of top quality bioactives, which is why we created our own 7-step process to ensure their safety and efficacy.



CERTIFICATIONS

Benefiting from decades of experience and innovation, all Linnea ingreedients are manufactured in our Swiss GMP facility.

With stringent ICH protocols, our quality control system ensures the consistency and standardization of each batch, with results that can be duplicated day after day, year after year, providing the reliability essential to the pharmaceutical, cosmetics and dietary supplement industries.









INNOVATION

Linnea is on the cutting-edge of innovation, a mindset that our professionals and executive team apply to every aspect of the business.



GREEN SPIRIT

Sustainability is a company-wide **priority**: we partner with local farmers organic waste into energy thanks to a biogas plant, and we voluntarily adhere to the Swiss Private Sector Energy Agency Program, for a minimal CO₂ footprint.



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LINNEA 7 STEPS OF CERTIFIED EXCELLENCE

QUALITY IS THE COMMON THREAD DEFINING EVERY STEP OF LINNEA'S MANUFACTURING CHAIN, RESULTING IN OUTSTANDING CERTIFIED INGREDIENTS.

SELECTION 1

Linnea selects only the finest raw materials from trusted international cultivators



2 RESEARCH & DEVELOPMENT

Since 1982, Linnea has expanded its knowledge of botanical ingredients, continuing that research today

TRANSFORMATION



Linnea's entire manufacturing process takes place in our GMP-certified facilities in Switzerland, where respect for mother nature comes first.



ASSURING



Linnea is driven to discover and create new products that meet rigorous pharmaceutical standards





SUPPLYING

Our experience sets us apart and guarantees safety, quality and innovation



6

DELIVERY

Linnea's logistics professionals ensure that your products arrive quickly and safely

SUPPORT



The professionals at Linnea are here for your brand: from the selection of just the right ingredients to regulatory assistance, even providing regular updates about advances in the industry



IMPROVING LIVES WITH TRUSTWORTHY INGREDIENTS

OUR SELECTED BOTANICAL INGREDIENTS
FOR YOUR INNOVATIVE NATURAL SOLUTIONS



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	Linnea® Ginkgo Biloba	Linnea® Red Clover	Linnea® 5 HTP	Linnea® HMRlignan®
PHARMACEUTICAL INGREDIENTS				
DIETARY INGREDIENTS				***
SUITABLE FOR INJECTABLES				
GMP				
DMF				
CEP				
PH. EUR.				
USP	*			**
	* Compliant with US limits, but n	ot methods. ** In progress.	*** Novel Food Registration in process in the EU.	

12	13	14	15	16
Linnea® Bilberry	Linnea® Butylscopolamine	Linnea® Vinpocetine	Linnea® Vincamine	Linnea® Cannabinoids
-				
-				****
			**	

^{****} Novel Food Applications in process for the EU and UK.

Linnea® Ginkgo Biloba

LINNEA'S GINKGO BILOBA BOTANICAL EXTRACT IS AN EFFECTIVE ACTIVE INGREDIENT THAT EMBODIES THE COMPANY PHILOSOPHY AND COMMITMENT TO QUALITY WHILE BENEFITING BOTH BODY AND MIND.

PLANT Ginkgo biloba L.

PART OF THE PLANT USED

Leaves

APPEARANCE

Light brown, amorphous powder

CAS NUMBER

90045-36-6



Linnea® Red Clover

BY CLOSELY MONITORING THE ENTIRE PRODUCTION CHAIN, LINNEA ENSURES UNIFORMITY AND RELIABILITY ACROSS ALL BATCHES OF ITS RED CLOVER EXTRACT, COMPOSED OF A PRECISE RATIO OF FOUR DIFFERENT ISOFLAVONES (FORMONONETIN, BIOCHAIN A, GENISTEIN AND DAIDZEIN).

PLANT

Trifolium pratense L.

PART OF THE PLANT USED

Aerial parts

APPEARANCE

Dark green, amorphous powder

CAS NUMBER

85085-25-2



USES

+ PHARMACEUTICAL

// Anti-dementia

// Circulation

DIETARY INGREDIENTS

// Memory loss and concentration disorders

// Minor circulatory disorders

PRODUCTS

GINKGO BILOBA EPG 246

 \Box +

Refined and quantified dry 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

Powdered Ginkgo Extract

// Ginkgo flavon glycosides: NLT 24%

// Bilobalide: 2.6% -3.2%

// Ginkgolides A, B, C, J and Bilobalide: NLT 6%

NATURALLY RICH IN INGREDIENTS WITH OUTSTANDING THERAPEUTIC VALUE

COMPLIES WITH PH.EUR MONOGRAPH "GINKGO DRY EXTRACT REFINED AND QUANTIFIED", **CURRENT EDITION**

USES

+ PHARMACEUTICAL

// Climacteric symptoms

// Menopause symptoms

DIETARY INGREDIENTS

// Hot flashes reduction

(natural alternative to HRT - hormone replacement therapy)

// Menopause ailments

// Antioxidant and free-radical scavenger

USP MONOGRAPH "RED CLOVER AERIAL PARTS ISOFLAVONE AGLYCONES DRY EXTRACT"

LINNEA WAS THE SPONSOR OF THE

GROWN IN OPEN FIELDS

PROPRIETARY EXTRACTION METHOD

BATCH-TO-BATCH CONSISTENCY OF THE FOUR MAIN ISOFLAVONES

PRODUCTS

RED CLOVER

Dry extract of the aerial parts of isoflavone aglycones

Total isoflavone aglycones: 36.0% - 44.0%

















Linnea® 5 HTP

A NATURALLY GROWING PLANT IN SUB-SAHARAN AFRICA, OUR GRIFFONIA SIMPLICIFOLIA SEEDS ARE HARVESTED FROM THE WILD USING SUSTAINABLE METHODS.

PLANT

Griffonia simplicifolia

PART OF THE PLANT USED

Seeds

APPEARANCE

White to grey, white powder

CAS NUMBER

4350-09-8



WILD HARVESTED

USES

+ PHARMACEUTICAL

// Insomnia

// Post-anoxic myoclonus

// Anxiety and depression

// Migraines

DIETARY INGREDIENTS

// Sleep improvement

// Promotion of positive moods and emotions

// Appetite control and adherence to slimming programs

PRODUCTS

L-5-HYDROXYTRYPTOPHAN

// L-5- Hydroxytryptophan: NLT 99.0%



Isolated









Linnea® HMRlignan®

OUR HMRLIGNAN® IS A CONCENTRATED WELLSPRING OF HEALTH, PROVIDING EXPONENTIALLY MORE LIGNANS COMPARED TO DIETARY SOURCES.

PLANT

Picea abies

PART OF THE PLANT USED

Wood knots

APPEARANCE

Off-white crystalline powder



USES

DIETARY INGREDIENTS

// Antioxidant and antidegenerative

// Hot flashes in menopause

// Metabolic syndrome and cardiovascular diseases adjuvant

// Neuroinflammation and brain aging

// Connective tissues densifier

(Collagen, elastin and hyaluronic acid enhancer)

TRADEMARKED AND PATENTED

SUSTAINABLE FORESTS TO PROTECT NATURAL HERITAGE

> STANDARDIZED SPRUCE KNOT SELECTION

HMRLIGNAN-RICH TREES ONLY

SHORT SUPPLY CHAIN FOR **EXCELLENT QUALITY**

PRODUCTS

HMRlignan®

Norway Spruce Lignans

// 7-hydroximatairesinol in aglycone form, co-crystallized with potassium acetate











Linnea® Bilberry

GROWN IN FORESTS IN NORTHERN EUROPE. OUR ANTIOXIDANT-RICH BILBERRIES ARE TRANSFORMED INTO GMP CERTIFIED AND COSMOS APPROVED DRY EXTRACTS.

PLANT

Vaccinium myrtillus L.

PART OF THE PLANT USED

Berries

APPEARANCE

Dark-violet amorphous and hygroscopic powder

CAS NUMBER

84082-34-8



Linnea® Butylscopolamine

A PERIPHERALLY-ACTING ANTIMUSCARINIC AND ANTICHOLINERGIC AGENT, LINNEA HAS PRODUCED BUTYLSCOPOLAMINE IN ITS MANUFACTURING FACILITIES SINCE 1985, OBTAINING THIS SEMI-SYNTHETIC DERIVATIVE FROM THE LEAVES OF THE DUBOISIA PLANT.

PLANT

Duboisia

PART OF THE PLANT USED

Leaves

APPEARANCE

White or almost white Crystalline powder

CAS NUMBER

149-64-4



COMPLIES WITH PH. EUR. "HYOSCINE BUTYLBROMIDE"

MONOGRAPH, CURRENT EDITION

USES

+ PHARMACEUTICAL

// Venous insufficiency

// Capillary fragility

DIETARY INGREDIENTS

// Minor venous circulatory disturbances

// Discomfort and heaviness of legs

// Vision functionality and eye health

// Antioxidant

PRODUCTS

BILBERRY FRUIT DRY EXTRACT EP

Fresh Bilberry Fruit Dry Extract, refined and standardized

// Anthocyanins: 32.4% - 39.6%

POWDERED BILBERRY EXTRACT USP

Powdered Bilberry Extract

// Anthocyanins: NLT 36%

RICH IN ANTIOXIDANTS AND ACTIVE INGREDIENTS

SUSTAINABLY HARVESTED

SHORT SUPPLY CHAIN FOR PHYTO-INTEGRITY

UNIFORM PARTICLE SIZE AND GOOD SOLUBILITY

EXCELLENT STABILITY PROFILE

COMPLIES WITH PH. EUR.

"FRESH BILBERRY FRUIT DRY EXTRACT, REFINED AND STANDARDIZED" MONOGRAPH. AND USP "POWDERED BILBERRY EXTRACT" MONOGRAPH, BOTH CURRENT EDITION

USES

+ PHARMACEUTICAL

// Smooth-muscle relaxation

// Dysmenorrhea

PRODUCTS

BUTYLSCOPOLAMINE ORAL GRADE

SUITABLE FOR ORAL PHARMACEUTICAL FORMS

Semi-synthetic derivative

HYJECT™ | BUTYLSCOPOLAMINE

SUITABLE FOR INJECTABLE

Semi-synthetic derivative

// Non-sterile suitable for injectable pharmaceutical forms

// Abdominal muscle spasm

// Renal colic pain

































Linnea® Vinpocetine

LINNEA'S VINPOCETINE AND VINCAMINE
ARE EXTRACTED FROM VOACANGA AFRICANA
SEEDS DIRECTLY AT OUR SWISS MANUFACTURING SITE.

PLANT

Voacanga africana

PART OF THE PLANT USED

Seeds

APPEARANCE

White or slightly yellow crystalline powder

CAS NUMBER

42971-09-5



USES

- + PHARMACEUTICAL
- // Cerebrovascular disorders
- // Degenerative senile cerebral dysfunction
- // Peripheral vasodilatation and cerebral flow increasing
- // Acute and chronic cerebral circulatory disfunctions
- DIETARY INGREDIENTS
- // Concentration and memory
- // Neuroprotection and brain aging

SUSTAINABLE, NO RISK
OF DEFORESTATION

COMPLIES WITH PH. EUR.
"VINPOCETINE" MONOGRAPH,
CURRENT EDITION

PURITY GRADE BETWEEN 98.5% AND 101.5%

PRODUCTS

VINPOCETINE ORAL GRADE



Semi-synthetic derivative

// Suitable for oral pharmaceutical forms

VINJECT™ | VINPOCETINE



SUITABLE FOR INJECTABLE

Semi-synthetic derivative

// Non-sterile suitable for injectable pharmaceutical forms















- + PHARMACEUTICAL
- // Cerebral circulation modulation
- // Senile cognitive decline delay
- DIETARY INGREDIENTS
- // Brain performance (anti-hypoxic activity)
 and neuroprotective effect
- // Concentration and memory

PRODUCTS

Semi-synthetic derivative

VINCAMINE

7 _

PLANT

Voacanga africana

PART OF THE PLANT USED

Linnea® Vincamine

SEEDS DIRECTLY AT OUR SWISS MANUFACTURING SITE.

LINNEA'S VINPOCETINE AND VINCAMINE

ARE EXTRACTED FROM VOACANGA AFRICANA

Seeds

APPEARANCE

White crystalline microcrystalline powder

CAS NUMBER

1617-90-9

USES

SUSTAINABLE, NO RISK
OF DEFORESTATION

COMPLIES WITH PH. EUR.
"VINCAMINE" MONOGRAPH,
CURRENT EDITION















Linnea® Cannabinoids CBD & CBG

A TREASURE TROVE OF ACTIVE INGREDIENTS JUST WAITING TO BE REDISCOVERED. LINNEA'S THERAPEUTIC CANNABINOID SOLUTIONS ARE THE CULMINATION OF MORE THAN FOUR DECADES OF EXPERIENCE AND UNRIVALED ATTENTION TO QUALITY.

PLANT Cannabis Sativa L.

PART OF THE PLANT USED Aerial parts



USES

- + PHARMACEUTICAL
- COSMETIC INGREDIENTS
- DIETARY INGREDIENTS

STANDARDIZED, **ENSURING SAFETY AND EFFICACY**

PRODUCTS

neaxtracta®

CBD 5% CBG 5% □ □ +

Cannabinoid Extracts

neaPure®

CBD 99%** CBG 99%* ** □ □ +

Cannabinoid Isolates

neaPure®

CBD 20%

Cannabinoid Dilutions

CBD 1%

CBD 5%

Niosome Cosmetic Ingredients

READY MADE FORM SOLUTIONS

CBD 5% **CBG 5%**

Cannabinoid Extracts

CBD 20%

Cannabinoid Dilutions

Thanks to Linnea's network of reliable partners, we offer assistance in the development of readymade therapeutic Cannabinoid-based products, with packaging, containers, labels and inserts tailored to the client's specifications.



SITE CERTIFIED







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.

ALL PICTURES WERE TAKEN BEFORE THE COVID-19 PANDEMIC.

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

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^{*} CBG Isolates for pharmaceuticals under development.

^{**} Specification: 98.0% - 102.0%



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