

# PRODUCT LIST

## PHARMACEUTICALS

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## PHARMACEUTICALS

Indena's Active Pharmaceutical Ingredients are produced in compliance with cGMPs and in pharmaceutical inspected plants, supported by CTD-DMFs.

## OUR MISSION

At Indena we believe that an in-depth knowledge in active ingredients derived from botanicals and the search for excellence at all times are crucial commitments to serving our customers in pharmaceuticals and nutraceuticals.

Research and production technologies are the main focus of our mission and the way we create a "value difference" for our partners.

And we've got over 100 years of experience to prove it.

**Excellence in botanical derivatives**

# INDENA RESEARCHES, DEVELOPS AND MARKETS ACTIVE PRINCIPLES AND INGREDIENTS DERIVED FROM MEDICINAL PLANTS

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## **ISOLATED or SYNTHETIC/SEMISYNTHETIC PURE PRODUCTS**

PURE MOLECULES SYNTESIZED, SEMISYNTESIZED,  
ISOLATED, OR DERIVED FROM PLANTS

10

## **STANDARDIZED, PURIFIED or OTHER CHARACTERIZED DRY EXTRACTS**

DRY EXTRACTS WITH REPRODUCIBLE CONTENT OF  
CHARACTERISTIC CONSTITUENTS

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## **CHARACTERIZED, STANDARDIZED OILY and SOFT EXTRACTS**

OILY / SOFT EXTRACTS WITH REPRODUCIBLE CONTENT  
OF CHARACTERISTIC CONSTITUENTS

PACKAGING MATERIALS | Food grade polyethylene bags, multilayer bags | Kraft type cardboard drums, metallic drums, polyethylene drums, polypropylene pails (UN approved drums are used for hazardous products)

Please note this documentation is available for various Countries all over the world and hence it may contain statements or product classification not applicable to your Country. The claims made are in reference to ingredients only, hence they do not refer to finished products and they may not comply with Regulation EC n. 1924/2006 or other provisions in place in your Country. These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure or prevent any disease. Marketers of any finished product containing any ingredient are responsible for ensuring compliance with all applicable laws and regulations of Countries where the finished product is sold.

The ingredients described herein are offered for consideration for use in pharmaceutical products.



# ISOLATED or SYNTHETIC/SEMISYNTHETIC PURE PRODUCTS

PURE MOLECULES SYNTESIZED, SEMISYNTESIZED, ISOLATED,  
OR DERIVED FROM PLANTS

CEP GRANTED | **C**

HALAL CERTIFIED | **H**

KOSHER CERTIFIED | **K**



BRAND - ENGLISH NAME		BOTANICAL ORIGIN	ASSAY	BIOLOGICAL ACTIVITY
BOLDINE		<i>Peumus boldus</i> Molina - Bark of the trunk	≥98.5% ≤100.5% by potentiometry	Choleretic
CABAZITAXEL		<i>Taxus baccata</i> L. - Twig and leaf <i>Taxus wallichiana</i> Zucc. - Leaf and twig	≥97.5% ≤102.0% by HPLC	Antimitotic / Anticancer
COLCHICINE PH. EUR.	C	<i>Gloriosa superba</i> L. - Seed	≥97.0% ≤102.0% by potentiometry	Antigout
COLCHICINE USP		<i>Gloriosa superba</i> L. - Seed	≥94.0% ≤101.0% by HPLC	Antigout
COLCHICINE MICRONIZED	C	<i>Gloriosa superba</i> L. - Seed	≥94.0% ≤101.0% by HPLC	Antigout
CBD (NATURAL)		<i>Cannabis sativa</i> L. - Leaf, twig and inflorescence	≥98.0% ≤102.0% by HPLC	-
COLCHICOSIDE		<i>Gloriosa superba</i> L. - Seed	≥85.0% by HPLC	Chemical intermediate
CYTISINE		<i>Laburnum anagyroides</i> Medik.	Not applicable	Antismoking agent
10-DEACETYLBACCATIN III		<i>Taxus baccata</i> L. - Twig and leaf	≥96.0% by HPLC	Chemical intermediate
DOCETAXEL	C	<i>Taxus baccata</i> L. - Twig and leaf	≥97.% ≤102.0% by HPLC	Antimitotic / Anticancer
DOCETAXEL TRIHYDRATE	C	<i>Taxus baccata</i> L. - Twig and leaf	≥97.5% ≤102.0% by HPLC	Antimitotic / Anticancer

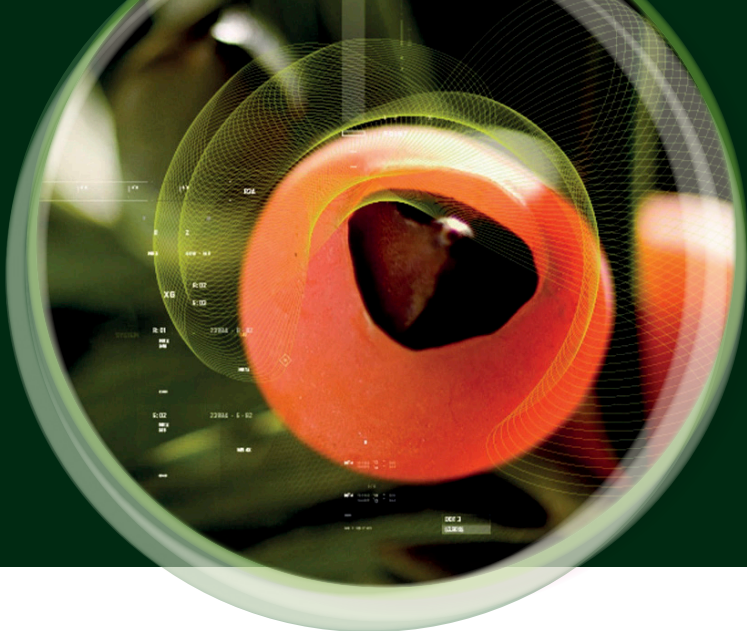
# ISOLATED or SYNTHETIC/SEMISYNTHETIC PURE PRODUCTS

PURE MOLECULES SYNTESIZED, SEMISYNTESIZED, ISOLATED,  
OR DERIVED FROM PLANTS

CEP GRANTED | C

HALAL CERTIFIED | H

KOSHER CERTIFIED | K



BRAND - ENGLISH NAME		BOTANICAL ORIGIN	ASSAY	BIOLOGICAL ACTIVITY
18β-GLYCYRRHETINIC ACID ENOXOLONE EUR. PH.		<i>Glycyrrhiza glabra</i> L.- Root	≥98.0% ≤101.0% by acidimetry	Anti-inflammatory
GALANTHAMINE BROMIDRATE	C	<i>Narcissus pseudonarcissus</i> L. - Bulb	≥99.0% ≤101.0% by potentiometry	Antialzheimer
MELPHALAN HYDROCHLORIDE		Not applicable	≥97.0% ≤102.0% by HPLC	Anticancer / Bone marrow transplantation
PACLITAXEL (SEMISYNTHETIC)	C	<i>Taxus baccata</i> L. - Leaf and twig <i>Taxus wallichiana</i> Zucc.. - Leaf and twig	≥97.0% ≤102.0% by HPLC ≥98.0% ≤102.0% by HPLC	Antimitotic / Anticancer
RESINIFERATOXIN		<i>Euphorbia resinifera</i> O. Berg. - Latex	≥98.0% ≤102.0% by HPLC	Painkiller
RESERPINE		<i>Rauvolfia vomitoria</i> Afz. - Root bark	≥99.0% ≤101.0% by potentiometry	Antihypertensive
THIOLCHICOSIDE (crystallized from water)	C	<i>Gloriosa superba</i> L. - Seed	≥96.0% ≤102.0% by HPLC	Muscle relaxant
THIOLCHICOSIDE (crystallized from EtOH)	C	<i>Gloriosa superba</i> L. - Seed	≥97.0% ≤102.0% by HPLC	Muscle relaxant
VOCLOSPORIN (for experimental use only)		Not applicable	≥97.5% ≤102.0% by HPLC	Lupus nephritis

# STANDARDIZED, PURIFIED or OTHER CHARACTERIZED DRY EXTRACTS

DRY EXTRACTS WITH REPRODUCIBLE CONTENT OF  
CHARACTERISTIC CONSTITUENTS

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BRAND - ENGLISH NAME	BOTANICAL ORIGIN		ASSAY	BIOLOGICAL ACTIVITY
BILEAR® - ARTICHOKE	CHK	<i>Cynara cardunculus</i> L. - Leaf	≥0.3% flavonoids expressed as luteolin-7-O-glucoside, ≥2.5% caffeoylquinic acid expressed as chlorogenic acid, ≥0.6% chlorogenic acid by HPLC	Cholesterol and Intestinal health
MYRTOCYAN® - BILBERRY	C	<i>Vaccinium myrtillus</i> L. - Fresh frozen fruit	≥32.4% ≤39.6% of anthocyanins, ≤ 1% anthocyanidins by HPLC	Venous insufficiency and capillar fragility
CENTELLA ASIATICA SELECTED TRITERPENES	HK	<i>Centella asiatica</i> (L.) Urban - Leaf	≥36.0% ≤44.0% of asiaticoside, ≥56.0% ≤64.0% of genins as sum of asiatic acid and madecassic acid by HPLC	Antiwrinkles, Stretchmarks improver
β-ESGIN (CRYSTALLINE)		<i>Aesculus hippocastanum</i> L. - Seed	≥97.0% ≤103% by potentiometry	Antioedema, Capillarotropic
β-ESGIN (AMORPHOUS)		<i>Aesculus hippocastanum</i> L. - Seed	≥95.0% by potentiometry	Antioedema, Capillarotropic
GINKGO BILOBA EUR. PH.	C	<i>Ginkgo biloba</i> L. - Leaf	≥22.0% ≤27.0% of flavonoids, ≥2.6% ≤3.2% of bilobalide, ≥2.8% ≤3.4% of ginkgolides A,B,C, ≤5.0 ppm of ginkgolic acids by HPLC	Blood circulation health
GINSENG 10%	H	<i>Panax ginseng</i> C.A. Meyer - Root	≥9.0% ≤11.0% of total ginsenosides by spectrophotometry	Adaptogen, Tonic
GINSENG 27-30%	H	<i>Panax ginseng</i> C.A. Meyer - Root	≥27.0% ≤30.0% of saponins by spectrophotometry; ≥20.0% of total ginsenosides by HPLC	Adaptogen, Tonic
GRAPESEED EXTRACT		<i>Vitis vinifera</i> L. - Seed	≥70.0% of of grapeseed OPCs by GPC; ≥10.0% ≤30.0% of monomers by HPLC	Capillarotropic
HEDGE MUSTARD	H	<i>Sisymbrium officinale</i> (L.) Scop. - Aerial part	≥1.0% of glucosinolates by HPLC	Throat and upper respiratory tract health
HORSE CHESTNUT	H	<i>Aesculus hippocastanum</i> L. - Seed	≥18.0% ≤22.0% of saponins by spectrophotometry or 6.5-10-0% of total triterpene glycosides expressed as protoaescigenin (dried extract) acc.to Ph. Eur #1829 by HPLC	Antioedema, Capillarotropic

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BRAND - ENGLISH NAME		BOTANICAL ORIGIN	ASSAY	BIOLOGICAL ACTIVITY
LINDEN TREE	K	<i>Tilia cordata</i> Mill. / <i>Tilia platyphyllos</i> Scop. / <i>Tilia x vulgaris</i> Heyne- Inflorescence	≥0.5% of flavonoids by HPLC	Spasmolytic, Healthy mood, Antioedema
MELILOTUS	K	<i>Melilotus officinalis</i> (L.) Pall. (Homonym <i>Melilotus officinalis</i> (L.) Lam.) - Aerial part	≥17.0% ≤20.0% of coumarin by HPLC	Lymphatic circulation health
RUSCOGENINS 60%		<i>Ruscus aculeatus</i> L. - Rhizome and root	≥60.0% ≤73.0% of ruscogenins + neoruscogenins by HPLC	Antihaemorrhoidal, Venotropic
RUSCOGENINS		<i>Ruscus aculeatus</i> L. - Rhizome and root	≥95.0% ≤103.0% of ruscogenins, ≥65.0% ≤80.0% neoruscogenin, ≥20.0% ≤35.0% ruscogenin by HPLC	Antihaemorrhoidal, Venotropic
SENNOSIDES ACID 45%		<i>Cassia angustifolia</i> Vahl. - Leaf	≥42.0% ≤56.0% of hydroxyanthracene glycosides, calculated as sennoside B by spectrophotometry; ≥38.0% ≤44.0% of sennosides, calculated as sum of Sennoside A and Sennoside B by HPLC	Laxative
SENNOSIDES 45%		<i>Cassia angustifolia</i> Vahl. - Leaf	≥42.5% ≤47.5% of hydroxyanthracene glycosides, calculated as sennoside B by spectrophotometry	Laxative
SILYMARIN	HK	<i>Silybum marianum</i> (L.) Gaertn. Fruit without pappum	Extraction solvent: ethyl acetate ≥50.0% ≤60.0% of silymarin calculated as silybin by HPLC according to Ph. Eur. (corresponding to NTL 80% of flavonoids as silibinin monohydrate by spectrophotometry)	Liver diseases, Healthy liver, Antioxidant activity
ST. JOHN'S WORT	C	<i>Hypericum perforatum</i> L. - Flowering top	≥0.10% ≤0.30% of total hypericin, ≥6.0% of flavonoids, ≤6.0% of hyperforin by HPLC	Antidepressant
VALERIAN EXTRACT	CK	<i>Valeriana officinalis</i> L. - Rhizome and root	≥0.25% of sesquiterpenic acids, expressed as valerenic acid, calculated on the anhydrous substance by HPLC	Sleep disorders, Healthy mood



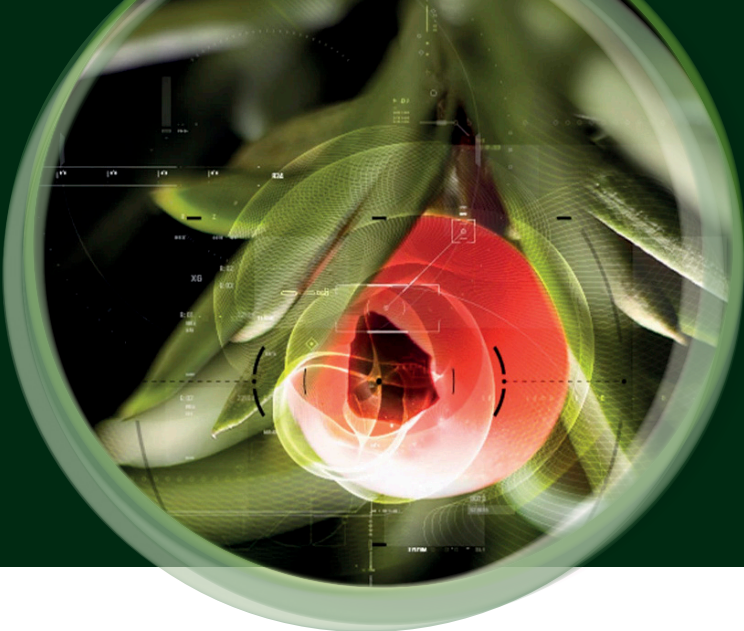
# CHARACTERIZED, STANDARDIZED OILY and SOFT EXTRACTS

OILY / SOFT EXTRACTS WITH REPRODUCIBLE CONTENT  
OF CHARACTERISTIC CONSTITUENTS

CEP GRANTED | **C**

HALAL CERTIFIED | **H**

KOSHER CERTIFIED | **K**



BRAND - ENGLISH NAME		BOTANICAL ORIGIN	ASSAY	BIOLOGICAL ACTIVITY
SAW PALMETTO CO <sub>2</sub> EXTRACT	<b>C</b>	<i>Serenoa repens</i> (Bartr.) Small - Fruit	≥80.0% of total fatty acids, ≥23.0% of lauric acid, ≥0.20% of total sterols as β-sitosterol, ≥0.10% of β-sitosterol by GC	Antiandrogen, Anti-BPH
SAW PALMETTO ALCOHOLIC EXTRACT	<b>CK</b>	<i>Serenoa repens</i> (Bartr.) Small - Fruit	≥80.0% of total fatty acids, ≥23.0% of lauric acid, ≥0.20% of total sterols as β-sitosterol, ≥0.10% of β-sitosterol by GC	Antiandrogen, Anti-BPH, Prostate health and bladder function
SAW PALMETTO HEXANIC EXTRACT	<b>C</b>	<i>Serenoa repens</i> (Bartr.) Small - Fruit	≥80.0% of total fatty acids, ≥23.0% of lauric acid, ≥0.20% of total sterols as β-sitosterol, ≥0.10% of β-sitosterol by GC	Antiandrogen, Anti-BPH, Prostate health and bladder function



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