



 **indena**<sup>®</sup>  
INDUSTRIA  
DERIVATI  
NATURALI

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# PRODUCTLIST

# THE QUALITY

## PHARMACEUTICAL

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

## HEALTH - FOOD

Indena's ingredients for food supplements are produced under Hazard Analysis and Critical Control Points (HACCP) and in compliance with Food Safety Modernization Act (FSMA)

**H** HALAL  
certified

**K** KOSHER  
certified

**E** ECOCERT  
validated

**Co** COSMOS  
validated

**C** CEP  
granted

**G** GRAS: the product can be used as  
an ingredient in common food [US]

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 health-food, common food, pharmaceuticals and personal care.



## OUR MISSION

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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 healthfoods.

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 100 years of experience to prove it.

**Excellence in botanical derivatives**



INDENA  
RESEARCHES,  
DEVELOPS and  
MARKETS  
**ACTIVE  
PRINCIPLES  
and INGREDIENTS  
DERIVED FROM  
MEDICINAL  
and EDIBLE  
PLANTS**

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# ISOLATED or SEMISYNTHETIC PURE PRODUCTS

PURE MOLECULES ISOLATED OR DERIVED FROM PLANTS

	<b>BRAND - ENGLISH NAME</b>	<b>BOTANICAL ORIGIN</b>
■	BOLDINE	<i>Peumus boldus</i> Molina - Bark of the trunk
■	CABAZITAXEL	<i>Taxus baccata</i> L. - Twig and leaf
■	COLCHICINE PH. EUR.	<b>C</b> <i>Gloriosa superba</i> L. - Seed
■	COLCHICINE USP	<i>Gloriosa superba</i> L. - Seed
■	COLCHICINE MICRONIZED	<i>Gloriosa superba</i> L. - Seed
■	COLCHICOSIDE	<i>Gloriosa superba</i> L. - Seed
■	10-DEACETYLBACCATIN III	<i>Taxus baccata</i> L. - Twig and leaf
■	DOCETAXEL	<i>Taxus baccata</i> L. - Twig and leaf
■	DOCETAXEL TRIHYDRATE	<i>Taxus baccata</i> L. - Twig and leaf
■	18β-GLYCYRRHETINIC ACID - ENOXOLONE EUR. PH.	<i>Glycyrrhiza glabra</i> L. - Root
■	GALANTHAMINE BROMIDRATE	<b>C</b> <i>Narcissus pseudonarcissus</i> L. - Bulb
■	PACLITAXEL	<b>C</b> <i>Taxus x media</i> Rehder - Leaf and twig
■	PACLITAXEL S	<b>C</b> <i>Taxus baccata</i> L. - Leaf and twig

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## ASSAY

≥98.5% ≤100.5% by potentiometry

≥97.5% ≤102.0% by HPLC

≥97.0% ≤102.0% by potentiometry

≥94.0% ≤101.0% by HPLC

≥94.0% ≤101.0% by HPLC

≥85.0% by HPLC

≥96.0% by HPLC

≥97.0% ≤102.0% by HPLC

≥97.5% ≤102.0% by HPLC

≥98.0% ≤101.0% by acidimetry

≥98.0% ≤102.0% by HPLC

≥97.0% ≤ 102.0% by HPLC

≥97% ≤102% by HPLC

## BIOLOGICAL ACTIVITY

Choleretic

Antimitotic / Anticancer

Antigout

Antigout

Antigout

Chemical intermediate

Chemical intermediate

Antimitotic / Anticancer

Antimitotic / Anticancer

Anti-inflammatory

Antialzheimer

Antimitotic / Anticancer

Antimitotic / Anticancer

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)

# ISOLATED or SEMISYNTHETIC PURE PRODUCTS

PURE MOLECULES ISOLATED OR DERIVED FROM PLANTS  
(continue)

	<b>BRAND - ENGLISH NAME</b>	<b>BOTANICAL ORIGIN</b>
■	RESERPINE	<i>Rauvolfia vomitoria</i> Afz. - Root bark
■	RESERPINE USP	<i>Rauvolfia vomitoria</i> Afz. - Root bark
■	RESERPINE MICRONIZED	<i>Rauvolfia vomitoria</i> Afz. - Root bark
■	THIOLCHICOSIDE (crystallized from water)	<i>Gloriosa superba</i> L. - Seed
■	THIOLCHICOSIDE (crystallized from EtOH)	<i>Gloriosa superba</i> L. - Seed

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## ASSAY

≥99.0% ≤101.0% by potentiometry

≥97.0% ≤101.0% by HPLC

≥99.0% ≤101.0% by potentiometry

≥96.0% ≤102.0% by HPLC

≥97.0% ≤102.0% by HPLC

## BIOLOGICAL ACTIVITY

Antihypertensive

Antihypertensive

Antihypertensive














Muscle relaxant

Muscle relaxant

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)

# STANDARDIZED, PURIFIED or OTHER CHARACTERIZED DRY EXTRACTS

DRY EXTRACTS WITH REPRODUCIBLE CONTENT OF CHARACTERISTIC CONSTITUENTS

	BRAND - ENGLISH NAME		BOTANICAL ORIGIN
	ALDER BUCKTHORN	<b>K</b>	<i>Rhamnus frangula</i> L. (syn. <i>Frangula alnus</i> Miller) Bark of stems and branches
	ARTICHOKE	<b>HK</b>	<i>Cynara cardunculus</i> L. - Leaves
	BILEAR® - ARTICHOKE	<b>CH</b>	<i>Cynara cardunculus</i> L. - Leaf
	PRODIGEST® ARTICHOKE AND GINGER		<i>Cynara cardunculus</i> L. - Leaf <i>Zingiber officinale</i> Roscoe - Rhizome
	BEANBLOCK® - BEAN		<i>Phaseolus vulgaris</i> L. - Seed
	MIRTOSELECT® - BILBERRY	<b>HK</b>	<i>Vaccinium myrtillus</i> L. - Fresh frozen fruit
	MYRTOCYAN® - BILBERRY	<b>C</b>	<i>Vaccinium myrtillus</i> L. - Fresh frozen fruit
	BLACK COHOSH	<b>K</b>	<i>Cimicifuga racemosa</i> (L.) Nutt. (syn. <i>Actaea racemosa</i> L.) Rhizome and root
	BOLDO	<b>K</b>	<i>Peumus boldus</i> L. - Leaf and bark
	BUTCHER'S BROOM	<b>K</b>	<i>Ruscus aculeatus</i> L. - Rhizome and root
	CASCARA SAGRADA	<b>K</b>	<i>Rhamnus purshiana</i> DC. - Bark of the trunk
	CENTEVITA® - CENTELLA ASIATICA	<b>HECo</b>	<i>Centella asiatica</i> (L.) Urban - Leaf
	CENTELLA ASIATICA SELECTED TRITERPENES		<i>Centella asiatica</i> (L.) Urban - Leaf

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## ASSAY

≥15.0% hydroxyanthracene heterosides calculated as glucofrangulin A

≥6.0 ≤12.0% of caffeoylquinic acids by HPLC

≥0.3% flavonoids expressed as luteolin-7-O-glucoside,  
≥2.5% caffeoylquinic acid expressed as chlorogenic acid,  
≥0.6% chlorogenic acid by HPLC

Artichoke extract: ≥28.0 ≤34.0% by HPLC  
Ginger extract: ≥6.0% ≤7.0% by HPLC

≥6.0% as alpha amylase inhibitor by HPLC; 1,100 U/mg of alpha  
amylase inhibiting activity; 30,000 HAU/g of hemagglutinating activity by  
spectroph./enzym.

≥36.0% of anthocyanins by HPLC

≥32.4% ≤39.6% of anthocyanins by HPLC, 1% anthocyanidins by HPLC

≥5% of total triterpenic glycosides

≥0.05% of boldin by TLC; ≤0.2% of total alkaloids by acidometry

≥9.0% ≤11.0% of saponins calculated as ruscogenins  
by spectrophotometry

≥20.0% ≤25.0% of cascariosides expressed as cascarioside A  
by spectrophotometry

≥45.0% of the sum of asiaticoside, madecassoside,  
asiatic and madecassic acids by HPLC

≥36.0% ≤44.0% of asiaticoside, ≥56.0% ≤64.0% of genins  
as sum of asiatic acid and madecassic acid by HPLC

## BIOLOGICAL ACTIVITY

Laxative, Gut health

Cholesterol and Intestinal health

Cholesterol and Intestinal health

Gut/Digestive health

Appetite regulator,  
Healthy blood sugar metabolism

Eye health, Capillarotropic,  
Antioxidant activity

Venous insufficiency and capillar fragility

Menopause

Choleretic agent, digestive health

Vasoprotectant, Capillarotropic

Laxative, Gut health

Antioxidant activity,  
Collagen restructurant

Antiwrinkles, Stretchmarks improver

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)

# STANDARDIZED, PURIFIED or OTHER CHARACTERIZED DRY EXTRACTS

DRY EXTRACTS WITH REPRODUCIBLE CONTENT OF CHARACTERISTIC CONSTITUENTS

(continue)

	<b>BRAND - ENGLISH NAME</b>		<b>BOTANICAL ORIGIN</b>
	CHAMOMILE	<b>K</b>	<i>Matricaria chamomilla</i> L. (syn. <i>Matricaria recutita</i> L.) Flowering head, ligula
	ANTHOCRAN® - CRANBERRY		<i>Vaccinium macrocarpon</i> Ait. - fruit
	DEVIL'S CLAW (100% <i>procumbens</i> )	<b>H</b>	<i>Harpagophytum procumbens</i> DC. - Root
	DEVIL'S CLAW	<b>H</b>	<i>Harpagophytum procumbens</i> DC. & <i>zeyheri</i> Decne - Root
	IMMUNOSELECT® ECHINACEA ANGUSTIFOLIA	<b>K</b>	<i>Echinacea angustifolia</i> DC. - Root
	POLINACEA® ECHINACEA ANGUSTIFOLIA		<i>Echinacea angustifolia</i> DC. - Root
	ESCIN		<i>Aesculus hippocastanum</i> L. - Seed
	ESCIN FREE ACID		<i>Aesculus hippocastanum</i> L. - Seed
	GINKGOSELECT® GINKGO BILOBA	<b>H</b>	<i>Ginkgo biloba</i> L. - Leaf
	GINKGO BILOBA HF ETHANOLIC EXTRACT	<b>H</b>	<i>Ginkgo biloba</i> L. - Leaf
	VIRTIVA® - GINKGO BILOBA PHOSPHATIDYLSERINE	<b>H</b>	<i>Ginkgo biloba</i> L. - Leaf

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## ASSAY

## BIOLOGICAL ACTIVITY

≥1.2% of total apigenin by HPLC

Spasmolytic, Soothing

≥27.0% ≤33.0% of of proanthocyanidins by spectrophotometry (DMAC method)

Urinary tract health

≥1.8% ≤2.2% of harpagoside by HPLC

Joint health

≥1.8% ≤2.2% of harpagoside by HPLC

Joint health

≥4.0% of echinacoside by HPLC

Immune system health,  
Antioxidant activity

≥2.0% of echinacoside by HPLC, ≥5.0% of IDN 5405,  
≤0.1% of isobutylamides

Immune system health

≥97.0% ≤103% by potentiometry

Antioedema, Capillarotropic

≥95.0% by potentiometry

Antioedema, Capillarotropic

≥24.0% of ginkgoflavoglucosides, ≥6.0% as a sum of ginkgolides A, B,  
C, ≤5.0 ppm of total ginkgolic acids by HPLC

Blood circulation health

≥24.0% of ginkgoflavoglucosides, ≥6.0% as sum of ginkgolides A, B,C  
and bilobalide, ≤5.0 ppm of total ginkgolic acids by HPLC

Cognition and circulation health,  
Antioxidant activity

≥5.0% of ginkgoflavoglucosides, ≥0.5% of ginkgoterpenes,  
≥12.0% of phosphatidylserine by HPLC

















Cognitive health

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# STANDARDIZED, PURIFIED or OTHER CHARACTERIZED DRY EXTRACTS

DRY EXTRACTS WITH REPRODUCIBLE CONTENT OF CHARACTERISTIC CONSTITUENTS

(continue)

	BRAND - ENGLISH NAME		BOTANICAL ORIGIN
	GINKGO BILOBA EUR. PH.	<b>C</b>	<i>Ginkgo biloba</i> L. - Leaf
	GINSENG Re >1%		<i>Panax ginseng</i> C.A. Meyer - Root
	GINSENG 1%		<i>Panax ginseng</i> C.A. Meyer - Root
 	GINSENG 10%		<i>Panax ginseng</i> C.A. Meyer - Root
	GINSENG 10%	<b>HK</b>	<i>Panax ginseng</i> C.A. Meyer - Root
	GINSENG 18-22%	<b>K</b>	<i>Panax ginseng</i> C.A. Meyer - Root
 	GINSENG 27-30%	<b>H</b>	<i>Panax ginseng</i> C.A. Meyer - Root
 	GINSELECT® - GINSENG IDB	<b>H</b>	<i>Panax ginseng</i> C.A. Meyer - Root
	RED LEAF GRAPE	<b>H</b>	<i>Vitis vinifera</i> L. - Leaf
	LEUCOSELECT® GRAPE SEED EXTRACT	<b>HK</b>	<i>Vitis vinifera</i> L. - Seed
	ENOVITA® GRAPE SEED EXTRACT	<b>GHKCo</b>	<i>Vitis vinifera</i> L. - Seed
	GRAPE SEED MONOMERS		<i>Vitis vinifera</i> L. - Seed
	GREENSELECT® - GREEN TEA	<b>K</b>	<i>Camellia sinensis</i> (L.) Kuntze - Leaf

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## ASSAY

≥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

≥10.0% of total ginsenosides;  
 ≥1.0% of ginsenoside Re by HPLC

≥1.0% of total ginsenosides by HPLC

≥9.0% ≤11.0% of total ginsenosides by HPLC

≥8.0% ≤12.0% of total ginsenosides by HPLC

≥18.0% ≤22.0% of total ginsenosides and malonylginsenosides by HPLC

≥27.0% ≤30.0% of saponins by spectrophotometry;  
 ≥20.0% of total ginsenosides by HPLC

≥7.0% of ginsenosides and malonylginsenosides,  
 ≥0.9% ≤1.4% of Rg1, ≥1.7% ≤3.0% of Rb1 by HPLC

≥3.0% of total flavonoids (isoquercitrin, quercetin-3-O-β-D-glucuronide  
 and kaempferol-3-O-glucoside) by HPLC;  
 ≥0.3% of anthocyanins by spectrophotometry

≥95.0% ≤105.0% of proanthocyanidins by GPC;  
 ≥13.0% ≤19.0% of catechin and epicatechin by HPLC

≥95.0% of proanthocyanidins by spectrophotometry,  
 ≥5.0% ≤15.0% of catechin and epicatechin by HPLC

≥20.0% ≤30.0% of monomers (catechin and epicatechin),  
 ≥20.0% of dimers by HPLC

≥60.0% of total polyphenols, ≥40.0% of (-)-epigallocatechin-3-O-gallate,  
 ≤0.1% of caffeine by HPLC

## BIOLOGICAL ACTIVITY

Blood circulation health

Adaptogen, Tonic

Adaptogen, Tonic

Adaptogen, Tonic

Adaptogen, Tonic

Adaptogen, Tonic

Adaptogen, Tonic

Adaptogen, Tonic

Antioxidant activity, Capillarotropic

Antioxidant activity, Capillarotropic

Antioxidant activity, Capillarotropic

Antioxidant activity, Capillarotropic












Antioxidant activity

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)

# STANDARDIZED, PURIFIED or OTHER CHARACTERIZED DRY EXTRACTS

DRY EXTRACTS WITH REPRODUCIBLE CONTENT OF CHARACTERISTIC CONSTITUENTS

(continue)

	BRAND - ENGLISH NAME		BOTANICAL ORIGIN
	GREEN TEA	<b>H</b>	<i>Camellia sinensis</i> (L.) Kuntze - Leaf
	GUARANA	<b>K</b>	<i>Paullinia cupana</i> Kunth - Seed
	HAWTHORN	<b>K</b>	<i>Crataegus</i> spp. - Leaf and flower
	HEDGE MUSTARD	<b>H</b>	<i>Sisymbrium officinale</i> (L.) Scop. - Aerial part
	HORSE CHESTNUT	<b>K</b>	<i>Aesculus hippocastanum</i> L. - Seed
	HORSETAIL	<b>H</b>	<i>Equisetum arvense</i> L. - Sterile aerial part
	IVY DRY HYDROALCOHOLIC EXT. 5%	<b>K</b>	<i>Hedera helix</i> L. - Leaf
	IVY DRY HYDROALCOHOLIC EXT. 10%	<b>K</b>	<i>Hedera helix</i> L. - Leaf
	LEMON BALM	<b>K</b>	<i>Melissa officinalis</i> L. - Leaf
	LINDEN TREE	<b>K</b>	<i>Tilia cordata</i> Mill. / <i>Tilia platyphyllos</i> Scop. / <i>Tilia x vulgaris</i> Heyne - Inflorescence
	LYMPHASELECT® - MELILOTUS	<b>H</b>	<i>Melilotus officinalis</i> (L.) Pall. (Homonym <i>Melilotus officinalis</i> (L.) Lam.) - Aerial part

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## ASSAY

≥40.0% of total polyphenols by spectrophotometry, ≥15.0% of total catechin expressed as epigallocatechin-3-O-gallate, 6% of epigallocatechin-3-O-gallate; 5.0% of caffeine by HPLC

≥11.0% ≤13.0% of total alkaloids by HPLC

≥1.8% of vitexin-2''-O-rhamnoside by spectrophotometry

≥1.0% of glucosinolates by HPLC

≥16.0% ≤22.0% of saponins expressed as escin by spectrophotometry; ≤10% of total triterpene glycosides expressed as protoaescigenin (dried extract) acc.to Ph. Eur #1829 by HPLC

≥2.6% ≤3.2% of silica and ≥0.8% of total flavonoids expressed as isoquercetin by spectrophotometry

≥5.0% of hederacoside C by HPLC

≥10.0% of hederacoside C by HPLC

≥10.0% of hydroxycinnamic derivates calculated as rosmarinic acid

≥0.5% of flavonoids by HPLC

≥17.0% ≤20.0% of coumarin by HPLC

## BIOLOGICAL ACTIVITY

Tonic, Body weight balance, Antioxidant activity

Tonic, Mild diuretic, Lipolytic

Cardiovascular health, Antioxidant activity

Throat and upper respiratory tract health

Antioedema, Capillarotropic

Hair and nail health

Capillarotropic, Throat and upper respiratory tract health

Capillarotropic, Throat and upper respiratory tract health

Healthy mood

Spasmolytic, Healthy mood, Antioedema















Lymphatic circulation health

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(continue)

	BRAND - ENGLISH NAME		BOTANICAL ORIGIN
	OLEASELECT® - OLIVE	<b>HK</b>	<i>Olea europaea</i> L. - Fruit
	OPEXTAN® - OLIVE	<b>GHK</b>	<i>Olea europaea</i> L. - Fruit
	PASSION FLOWER 2%	<b>K</b>	<i>Passiflora incarnata</i> L. - Aerial part
	PASSION FLOWER 4%	<b>K</b>	<i>Passiflora incarnata</i> L. - Aerial part
	RHODIOLA 3%		<i>Rhodiola rosea</i> L. - Root
	RHODIOLA 5%		<i>Rhodiola rosea</i> L. - Root
	RHUBARB 5%	<b>K</b>	<i>Rheum palmatum</i> L., <i>Rheum officinale</i> Baill. - Rhizome and root
	RHUBARB 10%	<b>K</b>	<i>Rheum australe</i> D. Don (syn. <i>Rheum emodi</i> Wall. ex Meisn.) - Rhizome and root
	RUSCOGENINS 60%		<i>Ruscus aculeatus</i> L. - Rhizome and root
	RUSCOGENINS		<i>Ruscus aculeatus</i> L. - Rhizome and root
	SENNOSIDES ACID 45%		<i>Cassia angustifolia</i> Vahl. - Leaf
	SENNOSIDES 45% S		<i>Cassia angustifolia</i> Vahl. - Leaf
	SILYMARIN	<b>K</b>	<i>Silybum marianum</i> (L.) Gaertn. Fruit without pappum
	ST. JOHN'S WORT	<b>C</b>	<i>Hypericum perforatum</i> L. - Flowering top

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## ASSAY

≥15% of hydroxytyrosol, ≥5.0% of verbascoside by HPLC

≥10.0% of total polyphenols by spectrophotometry; ≥2.0% ≤3.5% of verbascoside, ≥4.5% of hydroxytyrosol and its derivatives by HPLC

≥2.0% of flavonoids as vitexin by spectrophotometry

≥4.0% of flavonoids as vitexin by spectrophotometry

≥3.0% ≤4.0% of total rosavins; ≥1.0% ≤2.0% of salidroside by HPLC

≥5.0% of total rosavins; ≥1.8% of salidroside by HPLC

≥5.0% ≤6.1% of hydroxyanthracenics derivates expressed as rhein calculated on dried extract

≥9.0% ≤11.0% of total anthraquinones calculated as aloe-emodin

≥60.0% ≤73.0% of ruscogenins + neoruscogenins by HPLC

≥95.0% ≤103.0% of ruscogenins, ≥65.0% ≤80.0% neoruscogenin, ≥20.0% ≤35.0% ruscogenin by HPLC

≥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

≥42.5% ≤47.5% of hydroxyanthracene glycosides, calculated as sennoside B by spectrophotometry

≥50.0% ≤60.0% of silymarin calculated as silybin by HPLC according to Ph. Eur. (corresponding to NTL 65% according to DAB 10 ≥30.0% by spectrophotometry)

≥0.10% ≤0.30% of total hypericin, ≥6.0% of flavonoids, ≤6.0% of hyperforin by HPLC

## BIOLOGICAL ACTIVITY

Antioxidant activity,  
Cardiovascular health

Antioxidant activity, Cardiovascular health,  
UV protectant

Healthy mood

Healthy mood

Adaptogen, Tonic

Adaptogen, Tonic

Eupeptic, Laxative, Gut health

Eupeptic, Laxative, Gut health

Antihaemorrhoidal, Venotropic

Antihaemorrhoidal, Venotropic

Laxative

Laxative

Liver diseases,  
Healthy liver, Antioxidant activity





Antidepressant

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)

# STANDARDIZED, PURIFIED or OTHER CHARACTERIZED DRY EXTRACTS

DRY EXTRACTS WITH REPRODUCIBLE CONTENT OF CHARACTERISTIC CONSTITUENTS

(continue)

	<b>BRAND - ENGLISH NAME</b>		<b>BOTANICAL ORIGIN</b>
	VALERIAN EXTRACT	<b>K</b>	<i>Valeriana officinalis</i> L. - Rhizome and root
	VALEROSELECT® - VALERIAN EXTRACT	<b>KC</b>	<i>Valeriana officinalis</i> L. - Rhizome and root
	WILLOW BARK	<b>H</b>	<i>Salix spp.</i> - Twig and bark
	MITIDOL® ZINGIBER AND ACMELLA		<i>Zingiber officinale</i> Roscoe - Rhizome <i>Acmella oleracea</i> (L) R.K. Jensen - Aerial part

## PHARMACEUTICAL

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

## HEALTH - FOOD

Indena's ingredients for food supplements are produced under Hazard Analysis and Critical Control Points (HACCP) in authorized areas.

**H** HALAL certified

**K** KOSHER certified

**E** ECOCERT validated

**Co** COSMOS validated

**C** CEP granted

**G** GRAS: the product can be used as an ingredient in common food (US)



## ASSAY

≥0.25% of sesquiterpenic acids, expressed as valerenic acid, calculated on the anhydrous substance by HPLC

≥0.8% of valerenic acids by HPLC

≥15.0% of salicin by HPLC

≥9.6% ≤11.8% *Zingiber officinale* CO<sub>2</sub> standardized extract

≥1.9% ≤2.4% *Acemella oleracea* standardized extract

## BIOLOGICAL ACTIVITY

Sleep disorders, Healthy mood

Sleep disorders, Healthy mood







Healthy inflammatory response, Joint health

Ache relief

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)

# CHARACTERIZED, STANDARDIZED OILY and SOFT EXTRACTS

OILY / SOFT EXTRACTS WITH REPRODUCIBLE CONTENT  
OF CHARACTERISTIC CONSTITUENTS

	<b>BRAND - ENGLISH NAME</b>		<b>BOTANICAL ORIGIN</b>
	OMEGABLUE® - BILBERRY SEED	<b>ECo</b>	<i>Vaccinium myrtillus</i> L. - Seeds
	PRUNUS PYGEUM AFRICANUM		<i>Prunus africana</i> (Hook. F.) Kalkm. (syn. <i>Pygeum africanum</i> Hook. f.) - Bark
	CHINESE RHUBARB SOFT AQUEOUS EXTRACT		<i>Rheum palmatum</i> L. - Rhizome and Root
	SABALSELECT® SAW PALMETTO CO <sub>2</sub> EXTRACT	<b>K</b>	<i>Serenoa repens</i> (Bartr.) Small - Fruit
	SAW PALMETTO CO <sub>2</sub> EXTRACT		<i>Serenoa repens</i> (Bartr.) Small - Fruit
	SAW PALMETTO ALCOHOLIC EXTRACT	<b>KC</b>	<i>Serenoa repens</i> (Bartr.) Small - Fruit

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**H** HALAL  
certified

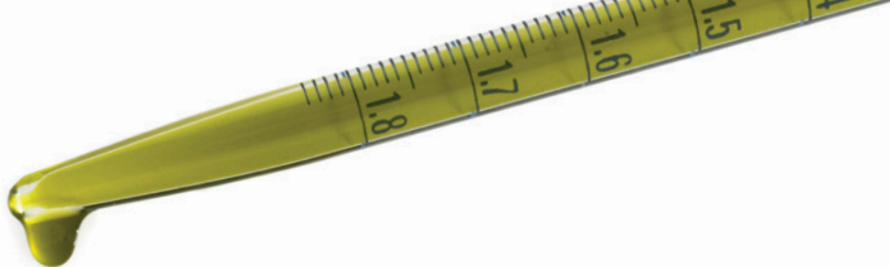
**K** KOSHER  
certified

**E** ECOCERT  
validated

**Co** COSMOS  
validated

**C** CEP  
granted

**G** GRAS: the product can be used as  
an ingredient in common food (US)



## ASSAY

≥80.0% total fatty acids by GC; ≥50% total polyunsaturated fatty acids by GLC

≥13% of total sterols by spectrophotometry

≥1.0% of anthraquinones as aloe-emodin by spectrophotometry

≥85.0% ≤95.0% of fatty acids, ≥0.15% ≤0.3% of fatty alcohols,  
≥0.2% ≤0.4% of total sterols, ≥0.1% ≤0.3% of β-sitosterol by GC

≥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

≥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

## BIOLOGICAL ACTIVITY

Cholesterol health

Healthy prostate and bladder function

Laxative, Gut health

Healthy prostate and bladder function

Antiandrogen, Anti-BPH

Antiandrogen, Anti-BPH,  
Healthy prostate and bladder function

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)

# PHYTOSOME®

INGREDIENTS WITH OPTIMIZED BIOAVAILABILITY

	<b>BRAND - ENGLISH NAME</b>		<b>BOTANICAL ORIGIN</b>
■	BERBEVIS® BERBERIN PHYTOSOME®		<i>Berberis aristata</i> L. - Root
■	CASPEROME® BOSWELLIA PHYTOSOME®		<i>Boswellia serrata</i> Roxb. ex Colebr. - Resin
■	GINKGOSELECT® PHYTOSOME® GINKGO BILOBA PHYTOSOME®	<b>K</b>	<i>Ginkgo biloba</i> L. - Leaf
■	GREENSELECT® PHYTOSOME® GREEN TEA PHYTOSOME®	<b>HK</b>	<i>Camellia sinensis</i> (L.) O. Kuntze - Leaf
■	LEUCOSELECT® PHYTOSOME® GRAPE SEED PHYTOSOME®		<i>Vitis vinifera</i> L. - Seed
■	SILYMARIN PHYTOSOME®	<b>HK</b>	<i>Silybum marianum</i> (L.) Gaertn. - Fruit
■	SILIPHOS® SILYBIN PHYTOSOME®	<b>HK</b>	<i>Silybum marianum</i> (L.) Gaertn. - Fruit
■	MERIVA® TURMERIC PHYTOSOME®	<b>HK</b>	<i>Curcuma longa</i> L. - Rhizome
■	UBIQSOME® COENZYME Q10 PHYTOSOME®		-
■	VAZGUARD® BERGAMOT PHYTOSOME®		<i>Citrus bergamia</i> Risso & Poit. - Fruit juice
■	QUERCEFIT® QUERCETIN PHYTOSOME® SF/MD		<i>Sophora japonica</i> L. - Flowering head

## PHARMACEUTICAL

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**phytosome<sup>®</sup>**

**ASSAY**

**BIOLOGICAL ACTIVITY**

≥28.0% ≤34.0% of berberine by HPLC

Healthy metabolism

≥25.0% of boswellic acids by HPLC

Healthy inflammatory response,  
Joint health, Gut health

≥7.0% of ginkgoflavonglucosides, ≥2.0% of ginkgoterpenes, ≥0.8% of ginkgolides, ≤5 ppm of total ginkgolic acids by HPLC

Cognition and circulation health,  
Antioxidant activity, Vasokinetic

≥19.0% ≤25.0% of polyphenols expressed as (-)-epigallocatechin-3-O-gallate, ≥13.0% of (-)-epigallocatechin-3-O-gallate, ≤0.1% of caffeine by HPLC

Body weight balance, Antioxidant activity

≥25.0% ≤30.0% of proanthocyanidins by GPC

Cardiovascular health,  
UV protectant, Antioxidant activity

≥15.0% ≤20.0% of flavolignans calculated as silybin by HPLC

Healthy liver, Antioxidant activity,  
UV protectant

≥29.7% ≤36.3% of silybin by HPLC

Healthy liver,  
Retinoic acid-like activity

≥18.0% ≤22.0% of curcuminoids by HPLC

Joint health, Healthy inflammatory  
response

≥18.0% ≤22.0% of coenzyme Q10 by HPLC

cells bioenergetics support, sports  
nutrition, healthy ageing, heart &  
cardiovascular health, brain health

≥11.0% ≤19.0% of total flavanols by HPLC

Healthy blood levels, Visceral fat optimizer

≥34.0% ≤42.0% of quercetin by HPLC

Sports nutrition, Antioxidant activity

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