



 **indena**[®]
INDUSTRIA
DERIVATI
NATURALI

PRODUCTLIST



THE QUALITY

PHARMACEUTICAL

Indena's Active Pharmaceutical Ingredients are produced in compliance with cGMPs and in pharmaceutical inspected suites, 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.

PERSONAL CARE

Indena's Personal Care ingredients are REACH registered

FOOD & FLAVOURS

Botanical extracts with organoleptic properties

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

HEALTH-FOOD INGREDIENTS DISCLAIMERS

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. The marketer of any finished product containing any ingredient is responsible for assuring that the destination of the product and the claims made for the finished product are lawful and comply with all applicable laws and regulations of the country or countries in which the product is to be sold.

The ingredients described herein are offered for consideration for use in health-food, pharmaceuticals and personal care.

PERSONAL CARE INGREDIENTS DISCLAIMER

The ingredients described herein are offered for consideration for use in personal care products. The information provided describes historical use, ingredient activity and other information that may be relevant to their use in such products. How each ingredient would contribute to a particular product would be formulation specific. Furthermore please note that this documentation is available for various countries all over the world and hence it may contain statements not applicable to your country.

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, health-foods, foods and personal care.

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 almost 100 years of experience to prove it.

Excellence in botanical derivatives



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

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BOTANICAL EXTRACTS WITH ORGANOLEPTIC PROPERTIES



ISOLATED or SEMISYNTHETIC PURE PRODUCTS

PURE MOLECULES ISOLATED OR DERIVED FROM PLANTS



	BRAND - ENGLISH NAME	BOTANICAL ORIGIN	ASSAY	BIOLOGICAL ACTIVITY
■	AJMALINE	<i>Rauvolfia vomitoria</i> Afz. - Root bark without rhytidoma	≥98.0% ≤ 102.0% by HPLC	Antiarrhythmic
■	ASIATICOSIDE	<i>Centella asiatica</i> (L.) Urban - Leaf	≥85.0% of asiaticoside by HPLC	Anti-wrinkles, Lips care
■	BOLDINE	<i>Peumus boldus</i> Molina - Bark of the trunk	≥98.5% ≤100.5% by potentiometry	Choleretic
■	CENTEROX® - HETEROSIDES	<i>Centella asiatica</i> (L.) Urban - Leaf	≥50.0% ≤70.0% of madecassoside and terminoloside, ≥10.0% ≤20.0% of asiaticoside, ≥70.0% ≤90.0% of sum of madecassoside, terminoloside and asiaticoside by HPLC	Anti-wrinkles, Collagen synthesis enhancer
■	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	<i>Gloriosa superba</i> L. - Seed	≥94.0% ≤101.0% by HPLC	Antigout
■	COLCHICOSIDE	<i>Gloriosa superba</i> L. - Seed	≥85.0% by HPLC	Chemical intermediate
■	10-DEACETYLBACCATIN III	<i>Taxus baccata</i> L. - Twig and leaf	≥96.0% by HPLC	Chemical intermediate
■	DOCETAXEL	<i>Taxus baccata</i> L. - Twig and leaf	≥97.0% ≤102.0% by HPLC	Antimitotic / Anticancer
■	ESCULOSIDE	<i>Aesculus hippocastanum</i> L. - Bark of branch	≥98.0% by HPLC	Vasokinetic, Capillary protectant
■	18β-GLYCYRRHETINIC ACID EUR. PH.	<i>Glycyrrhiza glabra</i> L. - Root	≥98.0% ≤101.0% by acidimetry	Anti-inflammatory
■	18β-GLYCYRRHETINIC ACID	<i>Glycyrrhiza glabra</i> L. - Root	≥98.0% ≤102.0% by acidimetry	Soothing, Lenitive
■	GALANTHAMINE BROMIDRATE	C <i>Narcissus pseudonarcissus</i> L. - Bulb	≥98.0% ≤102.0% by HPLC	Antialzheimer
■	PACLITAXEL	C <i>Taxus x media</i> Rehder - Leaf and twig	≥97.0% ≤ 102.0% by HPLC	Antimitotic / Anticancer
■	PACLITAXEL S	C <i>Taxus baccata</i> L. - Leaf and twig	≥97% ≤102% by HPLC	Antimitotic / Anticancer

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(continue)



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■	PRAJMALINE	<i>Rauvolfia vomitoria</i> Afz. - Root bark	≥98% ≤102% by potentiometry	Antiarrhythmic
■	RESERPINE	<i>Rauvolfia vomitoria</i> Afz. - Root bark	≥99.0% ≤101.0% by potentiometry	Antihypertensive
■	RESERPINE USP	<i>Rauvolfia vomitoria</i> Afz. - Root bark	≥97.0% ≤101.0% by HPLC	Antihypertensive
■	RESERPINE MICRONIZED	<i>Rauvolfia vomitoria</i> Afz. - Root bark	≥99.0% ≤101.0% by potentiometry	Antihypertensive
■	SERICOSIDE	<i>Terminalia sericea</i> Burch. ex DC. - Root bark	≥76.0% ≤84.0% by HPLC	Antiwrinkles, Soothing, Redensifier
■	THIOLCHICOSIDE (crystallized from water)	<i>Gloriosa superba</i> L. - Seed	≥96.0% ≤102.0% by HPLC	Muscle relaxant
■	THIOLCHICOSIDE (crystallized from EtOH)	<i>Gloriosa superba</i> L. - Seed	≥97.0% ≤102.0% by HPLC	Muscle relaxant
■	VISNADINE	<i>Ammi visnaga</i> (L.) Lam - Umbel without fruits	≥90.0% by HPLC	Vasokinetic
■	XIMENOIL® - XIMENYNIC ACID	<i>Santalum album</i> L. - Seed	≥98.0% ≤105% by potentiometry	Vasokinetic, Skin nourishing

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STANDARDIZED, PURIFIED or OTHER CHARACTERIZED DRY EXTRACTS

DRY EXTRACTS WITH REPRODUCIBLE CONTENT OF CHARACTERISTIC PRINCIPLES



BRAND - ENGLISH NAME	BOTANICAL ORIGIN	ASSAY	BIOLOGICAL ACTIVITY
 ALDER BUCKTHORN	K <i>Rhamnus frangula</i> L. (syn. <i>Frangula alnus</i> Miller) Bark of stems and branches	≥15.0% hydroxyanthracene heterosides calculated as glucofrangulin A	Laxative
 ANTHOCRAN® - CRANBERRY	<i>Vaccinium macrocarpon</i> Ait. - fruit	≥27.0% ≤33.0% of proanthocyanidins by spectrophotometry (DMAC method)	Urinary tract health
 CINARAN® - ARTICHOKE	HK <i>Cynara cardunculus</i> L. - Leaves	≥13.0 ≤18.0% of caffeoylquinic acids by HPLC	Cholesterol and Intestinal health
 BILEAR® - ARTICHOKE	CH <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
 BEANBLOCK® - BEAN	<i>Phaseolus vulgaris</i> L. - Seed	≥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.	Appetite regulator, Healthy blood sugar metabolism
 MIRTOSELECT® - BILBERRY	HK <i>Vaccinium myrtillus</i> L. - Fresh frozen fruit	≥36.0% of anthocyanins by HPLC	Eye health, Capillarotropic, Antioxidant activity
 MYRTOCYAN® - BILBERRY	C <i>Vaccinium myrtillus</i> L. - Fresh frozen fruit	≥32.4% ≤39.6% of anthocyanins by HPLC, 1% anthocyanidins by HPLC	Eye health, Capillarotropic
 BLACK COHOSH	K <i>Cimicifuga racemosa</i> (L.) Nutt. (syn. <i>Actaea racemosa</i> L.) Rhizome and root	≥5% of total triterpenic glycosides	Menopause-related symptoms controller
 BOLDO	K <i>Peumus boldus</i> L. - Leaf and bark	≥0.05% of boldin by TLC; ≤0.2% of total alkaloids by acidometry	Choleretic agent
 BUTCHER'S BROOM	K <i>Ruscus aculeatus</i> L. - Rhizome and root	≥9.0% ≤11.0% of saponins calculated as ruscogenins by spectrophotometry	Vasoprotectant

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(continue)



BRAND - ENGLISH NAME	BOTANICAL ORIGIN	ASSAY	BIOLOGICAL ACTIVITY
CASCARA SAGRADA	K <i>Rhamnus purshiana</i> DC. - Bark of the trunk	≥20.0% ≤25.0% of cascariosides expressed as cascarioside A by spectrophotometry	Laxative
CENTEVITA®	HECo <i>Centella asiatica</i> (L.) Urban - Leaf	≥45.0% of the sum of asiaticoside, madecassoside, asiatic and madecassic acids by HPLC	Collagen restructurant, Antiwrinkles agent
CENTELLA ASIATICA SELECTED TRITERPENES	<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 agent, Stretchmarks improver
CHAMOMILE	K <i>Matricaria chamomilla</i> L. (syn. <i>Matricaria recutita</i> L.) Flowering head, ligula	≥1.2% of total apigenin by HPLC	Spasmolytic, Soothing, Lenitive
COLEUS	<i>Coleus barbatus</i> (Andrews) Benth. ex G. Don (syn. <i>Plectranthus barbatus</i> Andrews) - Rhizome and root	≥80.0% of forskolin by HPLC	Lipolytic, Vasokinetic, cAMP stimulant
DEVIL'S CLAW (100% <i>procumbens</i>)	H <i>Harpagophytum procumbens</i> DC. - Root	≥1.8% ≤2.2% of harpagoside by HPLC	Joint health
DEVIL'S CLAW	H <i>Harpagophytum procumbens</i> DC. & <i>zeyheri</i> Decne - Root	≥1.8% ≤2.2% of harpagoside by HPLC	Joint health
IMMUNOSELECT® ECHINACEA ANGUSTIFOLIA	K <i>Echinacea angustifolia</i> DC. - Root	≥4.0% of echinacoside by HPLC	Immunomodulator, Antioxidant activity, Soothing
POLINACEA® ECHINACEA ANGUSTIFOLIA	<i>Echinacea angustifolia</i> DC. - Root	≥2.0% of echinacoside by HPLC, ≥5.0% of IDN 5405, ≤0.1% of isobutylamides	Immunomodulator
ECHINACEA PURPUREA	<i>Echinacea purpurea</i> (L.) Moench - Root	≥0.8% of caftaric, chicoric, chlorogenic acids and echinacoside by HPLC	Immunomodulator
ELEUTHEROCOCCUS	H <i>Eleutherococcus senticosus</i> (Rupr. & Maxim) Maxim - Root	≥0.5% of eleutheroside E by HPLC	Tonic, Immunomodulator
ESCIN	<i>Aesculus hippocastanum</i> L. - Seed	≥97.0% ≤103% by potentiometry	Antioedema, Capillarotropic
ESCIN FREE ACID	<i>Aesculus hippocastanum</i> L. - Seed	≥95.0% by potentiometry	Antioedema
GINKGOSELECT® GINKGO BILOBA	H <i>Ginkgo biloba</i> L. - Leaf	≥24.0% of ginkgoflavonglucosides, ≥6.0% as a sum of ginkgolides A, B, C, ≤5.0 ppm of total ginkgolic acids by HPLC	Blood circulation improver

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(continue)



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	GINKGO BILOBA HF ETHANOLIC EXTRACT	H	<i>Ginkgo biloba</i> L. - Leaf	≥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 improver, Antioxidant activity, Vasokinetic
	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 improver
	GINKGO BILOBA DIMERIC FLAVONOIDS		<i>Ginkgo biloba</i> L. - Leaf	≥24.0% ≤39.0% of total biflavones expressed as ginkgetin by HPLC	Antioxidant activity, Lipolytic
	GINSENG 1%		<i>Panax ginseng</i> C.A. Meyer - Root	≥1.0% of total ginsenosides by HPLC	Adaptogen, Tonic
	GINSENG 10%		<i>Panax ginseng</i> C.A. Meyer - Root	≥9.0% ≤11.0% of total ginsenosides by HPLC	Adaptogen, Tonic
	GINSENG 10%	HK	<i>Panax ginseng</i> C.A. Meyer - Root	≥8.0% ≤12.0% of total ginsenosides by HPLC	Adaptogen, Tonic
	GINSENG 18-22%	K	<i>Panax ginseng</i> C.A. Meyer - Root	≥18.0% ≤22.0% of total ginsenosides and malonylginsenosides by HPLC	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
	GINSELECT® - GINSENG IDB	H	<i>Panax ginseng</i> C.A. Meyer - Root	≥7.0% of ginsenosides and malonylginsenosides, ≥0.9% ≤1.4% of Rg1, ≥1.7% ≤3.0% of Rb1 by HPLC	Adaptogen, Tonic, Elasticizing
	RED LEAF GRAPE	H	<i>Vitis vinifera</i> L. - Leaf	≥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	Antioxidant activity, Capillarotropic
	LEUCOSELECT® GRAPE SEED EXTRACT	HK	<i>Vitis vinifera</i> L. - Seed	≥95.0% ≤105.0% of proanthocyanidins by GPC; ≥13.0% ≤19.0% of catechin and epicatechin by HPLC	Antioxidant activity, Capillarotropic
	ENOVITA® GRAPE SEED EXTRACT	GHKCo	<i>Vitis vinifera</i> L. - Seed	≥95.0% of proanthocyanidins by spectrophotometry, ≥5.0% ≤15.0% of catechin and epicatechin by HPLC	Antioxidant activity, Capillarotropic
	GRAPE SEED MONOMERS		<i>Vitis vinifera</i> L. - Seed	≥20.0% ≤30.0% of monomers (catechin and epicatechin), ≥20.0% of dimers by HPLC	Antioxidant activity, Capillarotropic
	GREENSELECT® - GREEN TEA	K	<i>Camellia sinensis</i> (L.) Kuntze - Leaf	≥60.0% of total polyphenols, ≥40.0% of (-)-epigallocatechin-3-O-gallate, ≤0.1% of caffeine by HPLC	Antioxidant activity, Antidecay, Whitener

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(continue)



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GREEN TEA	H <i>Camellia sinensis</i> (L.) Kuntze - Leaf	≥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	Tonic, Antioxidant activity
GUARANA	K <i>Paullinia cupana</i> Kunth - Seed	≥11.0% ≤13.0% of total alkaloids by HPLC	Tonic, Stimulant, Mild diuretic, Lipolytic
HAWTHORN	K <i>Crataegus</i> spp. - Leaf and flower	≥1.8% of vitexin-2"-O-rhamnoside by spectrophotometry	Cardiovascular health, Antioxidant activity
HEDGE MUSTARD	H <i>Sisymbrium officinale</i> (L.) Scop. - Aerial part	≥1.0% of glucosinolates by HPLC	Expectorant
HOPS	H <i>Humulus lupulus</i> L. - Strobile (dried female inflorescences)	≥0.3% of flavonoids by HPLC	Stress reliever
HORSE CHESTNUT	K <i>Aesculus hippocastanum</i> L. - Seed	≥16.0% ≤22.0% of saponins expressed as escin by spectrophotometry	Antioedema, Capillarotropic
HORSE CHESTNUT BARK DRY EXTRACT	K <i>Aesculus hippocastanum</i> L. - Bark of branch	≥20.0% of esculoside, esculetin, fraxetin and fraxin by HPLC	Capillarotropic
HORSETAIL	H <i>Equisetum arvense</i> L. - Sterile aerial part	≥2.6% ≤3.2% of silica and ≥0.8% of total flavonoids expressed as isoquercetin by spectrophotometry	Hair / Nail fragility reducer
IVY DRY HYDROALCOHOLIC EXT. 5%	K <i>Hedera helix</i> L. - Leaf	≥5.0% of hederacoside C by HPLC	Capillarotropic, Expectorant
IVY DRY HYDROALCOHOLIC EXT. 10%	K <i>Hedera helix</i> L. - Leaf	≥10.0% of hederacoside C by HPLC	Capillarotropic, Expectorant
KOLA	K <i>Cola acuminata</i> (P. Beauv.) Schott et Endl. Seed without coat	≥9.5% ≤13.0% of alkaloids by gravimetry	Lipolytic
LEMON BALM	K <i>Melissa officinalis</i> L. - Leaf	≥10.0% of hydroxycinnamic derivates calculated as rosmarinic acid	Calming agent
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, Antioedema
LYMPHASELECT® - MELILOTUS	H <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 improver
MILLET	ECo <i>Panicum miliaceum</i> L. - Seed	≥3.0% of fatty acids by GC	Skin restructurant, Skin barrier function improver

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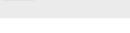
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 MILLET	H <i>Panicum miliaceum</i> L. - Seed	≥7.0% ≤10.0% of fatty acids by GC; ≥40.0% ≤60.0% of methionine by HPLC	Skin restructurant
 OLEASELECT® - OLIVE	HK <i>Olea europaea</i> L. - Fruit	≥15% of hydroxytyrosol, ≥5.0% of verbascoside by HPLC	Antioxidant activity, Cardiovascular health
 OPEXTAN® - OLIVE	GHK <i>Olea europaea</i> L. - Fruit	≥10.0% of total polyphenols by spectrophotometry; ≥2.0% ≤3.5% of verbascoside, ≥4.5% of hydroxytyrosol and its derivatives by HPLC	Antioxidant activity, UV protectant, Cardiovascular health
 PASSION FLOWER 2%	K <i>Passiflora incarnata</i> L. - Aerial part	≥2.0% of flavonoids as vitexin by spectrophotometry	Spasmolytic, Mild sedative
 PASSION FLOWER 4%	K <i>Passiflora incarnata</i> L. - Aerial part	≥4.0% of flavonoids as vitexin by spectrophotometry	Spasmolytic, Mild sedative
 PRODIGEST® ARTICHOKE AND GINGER	<i>Cynara cardunculus</i> L. <i>Zingiber officinale</i> Roscoe	Artichoke extract: ≥28.0 ≤34.0% by HPLC Ginger extract: ≥6.0% ≤7.0% by HPLC	Natural digestive relief
 RHUBARB 5%	K <i>Rheum palmatum</i> L., <i>Rheum officinale</i> Baill. - Rhizome and root	≥5.0% ≤6.1% of hydroxyanthracenics derivatives expressed as rhein calculated on dried extract	Eupeptic, Laxative
 RHUBARB 10%	K <i>Rheum australe</i> D. Don (syn. <i>Rheum emodi</i> Wall. ex Meisn.) - Rhizome and root	≥9.0% ≤11.0% of total anthraquinones calculated as aloe-emodin	Eupeptic, Laxative
 RUSCOGENINS 60%	<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
 RUSCOGENINS	<i>Ruscus aculeatus</i> L. - Rhizome and root	≥60.0% ≤73.0% of ruscogenins + neoruscogenins by HPLC	Antihaemorrhoidal, Venotropic
 RUSCOGENINS C	<i>Ruscus aculeatus</i> L. - Rhizome and root	≥92.0% ≤103.0% of ruscogenins, ≥60.0% ≤80.0% of neoruscogenin, ≥20.0% ≤40.0% of ruscogenin by HPLC	Anticellulite, Vasoprotectant
 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% S	<i>Cassia angustifolia</i> Vahl. - Leaf	≥42.5% ≤47.5% of hydroxyanthracene glycosides, calculated as sennoside B by spectrophotometry	Laxative
 SILYMARIN	K <i>Silybum marianum</i> (L.) Gaertn. Fruit without pappum	≥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)	Healthy liver, Antioxidant activity

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HEALTH - FOOD

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PERSONAL CARE

Indena's Personal Care ingredients are REACH registered

H HALAL certified

K KOSHER certified

E ECOCERT validated

Co COSMOS validated

C CEP granted

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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 PRINCIPLES

(continue)



	BRAND - ENGLISH NAME	BOTANICAL ORIGIN	ASSAY	BIOLOGICAL 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
■	ST. JOHNSELECT® ST. JOHN'S WORT	<i>Hypericum perforatum</i> L. - Flowering top	≥0.3% of hypericin like substances by spectrophotometry, ≥3.0% of hyperforin by HPLC	Healty mood
■ ■	XILOGEL® HS TAMARIND XYLOGLUCAN	ECo <i>Tamarindus indica</i> L. - Seed	≤75.0% of <i>Tamarindus indica</i> xyloglucane by HPLC	Moisturizer, Skin restructurant, Antiwrinkles
■ ■	VALERIAN EXTRACT	KC <i>Valeriana officinalis</i> L. - Rhizome and root	≥0.25% of sesquiterpenic acids, expressed as valerenic acid, calculated on the anhydrous substance by HPLC	Sedative
■ ■	VALEROSELECT® - VALERIAN EXTRACT	KC <i>Valeriana officinalis</i> L. - Rhizome and root	≥0.8% of valerenic acids by HPLC	Sedative
■	VITACHELOX™	Co <i>Vitis vinifera</i> L. - Seed <i>Camellia sinensis</i> (L.) Kuntze - Leaf <i>Quercus robur</i> L. - Wood	F10	Skin protectant, Antiageing, Antioxidant activity
■	WILLOW BARK	H <i>Salix spp.</i> - Twig and bark	≥15.0% of salicin by HPLC	Healty inflammatory response, Joint health

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CHARACTERIZED, STANDARDIZED OILY and SOFT EXTRACTS

OILY / SOFT EXTRACTS WITH REPRODUCIBLE CONTENT
OF CHARACTERISTIC PRINCIPLES



BRAND - ENGLISH NAME	BOTANICAL ORIGIN	ASSAY	BIOLOGICAL ACTIVITY
 CURBILENE® - PUMPKIN SEEDS KCo	<i>Cucurbita pepo</i> L. - Seed without coat	≥85.0% of fatty acids by GC	Healthy prostate and bladder function, Skin matting agent
 OMEGABLUE® - BILBERRY SEED ECo	<i>Vaccinium myrtillus</i> L. - Seeds	≥80.0% total fatty acids by GC; ≥50% total polyunsaturated fatty acids by GLC	Cholesterol health, Skin restructurant, Lenitive
 PRUNUS PYGEUM AFRICANUM	<i>Prunus africana</i> (Hook. F.) Kalkm. [syn. Pygeum africanum Hook. f.) - Bark	≥13% of total sterols by spectrophotometry	Healthy prostate and bladder function
 CHINESE RHUBARB SOFT AQUEOUS EXTRACT	<i>Rheum palmatum</i> L. - Rhizome and Root	≥1.0% of anthraquinones as aloe-emodin by spectrophotometry	Laxative
 SABALSELECT® SAW PALMETTO CO ₂ EXTRACT K	<i>Serenoa repens</i> (Bartr.) Small - Fruit	≥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	Healthy prostate and bladder function, Anti 5-α reductase
 SAW PALMETTO CO ₂ EXTRACT	<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 KCo	<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, Healthy prostate and bladder function
 XIMILENE® - ETHYLXIMENYNATE	<i>Santalum album</i> L. - Seed	≥70.0% of ethylximenynate by HPLC	Vasokinetic
 ZANTHALENE® - ZANTHOXYLUM ECo	<i>Zanthoxylum bungeanum</i> Maxim. - Pericarp	≥4.4% ≤6.4% of alkylamides by HPLC	Antiitching, Skin sensitivity modulator, Lifting agent

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PHYTOSOME®

INGREDIENTS WITH OPTIMIZED BIOAVAILABILITY



BRAND - ENGLISH NAME	BOTANICAL ORIGIN	ASSAY	BIOLOGICAL ACTIVITY
 BOSEXIL® BOSWELLIA PHYTOSOME®	<i>Boswellia serrata</i> Roxb. ex Colebr. - Resin	≥25.0% of boswellic acids by HPLC	Soothing, Lenitive, Anti-photoageing
 CASPEROME® BOSWELLIA PHYTOSOME®	<i>Boswellia serrata</i> Roxb. ex Colebr. - Resin	≥25.0% of boswellic acids by HPLC	Healthy inflammatory response,
 CENTELLA ASIATICA SELECTED TRITERPENES PHYTOSOME®	H <i>Centella asiatica</i> (L.) Urban - Leaf	≥30.0% ≤35.0% of selected triterpenes by HPLC	Collagen restructurant, Antiwrinkles agent
 ESCIN β-SITOSTEROL PHYTOSOME®	<i>Aesculus hippocastanum</i> L. - Seed	≥32.0% ≤40.0% of escin by TLC, ≥12.5% ≤15.5% of β-sitosterol by TLC	Capillarotropic
  GINKGOSELECT® PHYTOSOME® GINKGO BILOBA PHYTOSOME®	K <i>Ginkgo biloba</i> L. - Leaf	≥7.0% of ginkgoflavonglucosides, ≥2.0% of ginkgoterpenes, ≥0.8% of ginkgolides, ≤5 ppm of total ginkgolic acids by HPLC	Cognition and circulation improver, Antioxidant activity, Vasokinetic
 VIRTIVA® - GINKGO BILOBA PHOSPHATIDYLSERINE PHYTOSOME®	H <i>Ginkgo biloba</i> L. - Leaf	≥5.0% of ginkgoflavonglucosides, ≥0.5% of ginkgoterpenes, ≥12.0% of phosphatidylserine by HPLC	Cognitive enhancer
 GINKGO BILOBA DIMERIC FLAVONOIDS PHYTOSOME®	<i>Ginkgo biloba</i> L. - Leaf	≥10.0% of total biflavones expressed as ginkgetin by HPLC	Lipolytic, Vasokinetic, Phosphodiesterase inhibitor
 GINKGO BILOBA TERPENES PHYTOSOME®	<i>Ginkgo biloba</i> L. - Leaf	≥30.0% of total ginkgoterpenes, ≥10.0% of bilobalide, ≥10.0% of ginkgolides A, B, C, J by HPLC	Soothing, Lenitive, Antiallergic agent
 GINSELECT® PHYTOSOME® GINSENG PHYTOSOME®	K <i>Panax ginseng</i> C.A. Meyer - Root	≥30.0% ≤40.0% of ginseng typical constituents by gravimetry	Skin elasticity improver

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PHYTOSOME®

INGREDIENTS WITH OPTIMIZED BIOAVAILABILITY

(continue)



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 18β-GLYCYRRHETINIC ACID PHYTOSOME®	<i>Glycyrrhiza glabra</i> L. - Root	≥27.0% ≤31.0% of 18β-glycyrrhetic acid by HPLC	Soothing, Lenitive
 GREENSELECT® PHYTOSOME® GREEN TEA PHYTOSOME®	HK <i>Camellia sinensis</i> (L.) O. Kuntze - Leaf	≥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	Antioxidant activity, Weight loss agent
 LEUCOSELECT® PHYTOSOME® GRAPE SEED PHYTOSOME®	<i>Vitis vinifera</i> L. - Seed	≥25.0% ≤30.0% of proanthocyanidins by GPC	Healthy cardiovascular function, UV protectant, Antioxidant activity
 PROANTHOCYANIDIN A2 PHYTOSOME®	<i>Aesculus hippocastanum</i> L. - Bark	≥31.0% ≤37.0% of proanthocyanidin A2 by HPLC	UV protectant, Firming and oval reshaping agent
 REXATROL® RESVERATROL PHYTOSOME®	<i>Polygonum cuspidatum</i> Sieb. e Zucc. - Rhizome	≥30.0% of resveratrol by HPLC	Antioxidant activity, Antiageing, Sirt 1 modulator
 SILYMARIN PHYTOSOME®	K <i>Silybum marianum</i> (L.) Gaertn. - Fruit	≥15.0% ≤20.0% of flavolignans calculated as silybin by HPLC	Healthy liver, Antioxidant activity, UV protectant
 SILIPHOS® SILYBIN PHYTOSOME®	HK <i>Silybum marianum</i> (L.) Gaertn. - Fruit	≥29.7% ≤36.3% of silybin by HPLC	Healthy liver Retinoic-like activity
 MERIVA® TURMERIC PHYTOSOME®	HK <i>Curcuma longa</i> L. - Rhizome	≥18.0% ≤22.0% of curcuminoids by HPLC	Joint health, Healthy inflammatory response, Soothing
 VISNADEX® VISNADIN PHYTOSOME®	<i>Ammi visnaga</i> (L.) Lam. - Umbel without fruits	≥10.0% ≤13.0% of visnadin by TLC	Vasokinetic
 VAZGUARD™ BERGAMOT PHYTOSOME®	<i>Citrus bergamia</i> Risso & Poit. - Fruit juice	≥11.0% ≤19.0% of total flavanols by HPLC	Cardiovascular health
 QUERCEVITA® QUERCETIN PHYTOSOME®	<i>Sophora japonica</i> L.	≥17.0% ≤20.0% of quercetin by HPLC	Soothing, Lenitive, Skin relief
 QUERCETIN PHYTOSOME® SF/MD	<i>Sophora japonica</i> L.	≥34.0% ≤42.0% of quercetin by HPLC	Sports nutrition, antioxidant activity

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FOOD & FLAVOURS

BOTANICAL EXTRACTS WITH ORGANOLEPTIC PROPERTIES
(SELECTION OF PRODUCTS)



	BRAND - ENGLISH NAME	BOTANICAL ORIGIN	PLANT PART	ASSAY
■	AMMONIUM GLYCYRRHIZATE	<i>Glycyrrhiza glabra</i> L.	Root	≥98.0% ≤102.0% of monoammonium glycyrrhizate
■	ANISE	<i>Illicium verum</i> Hooker fil.	Fruit	≥0.5% of anethole by GC
■	ARTICHOKE	<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
■	LEMON BALM	<i>Melissa officinalis</i> L.	Flowering head	≥10% of hydroxycinnamic derivates calculated as rosmarinic acid
■	CHAMOMILE	<i>Matricaria recutita</i> L.	Flowering head	≥1.2% of total apigenin by HPLC
■	CURCUMIN PHYTOSOME® WA	<i>Curcuma longa</i> L.	Rhizome	≥29% ≤33% of natural curcumin and sunflower lecithin
■	GRAPE SEED	<i>Vitis vinifera</i> L.	Seed	≥95.0% of proanthocyanidins by spectrophotometry, ≥5.0% ≤15.0% of catechin and epicatechin by HPLC
■	GINSENG 1 / 2 / 10%	<i>Panax ginseng</i> C.A. Meyer	Root	1.0, 2.0, 10% of total ginsenosides and malonyl-ginsenosides calculated on the dried substance by colorimetry
■	GREEN COFFEE	<i>Coffea arabica</i>	Green seed	≥15.0% of caffeoylquinic acids expressed as chlorogenic acid by HPLC; ≥3.0 of total flavonoids
■	GREEN TEA	<i>Camellia sinensis</i> (L.) O. Kuntze	Leaf	≥40% of total polyphenols by spectrophotometry, ≥15% of total catechin expressed as epigallocatechin-3-O-gallate, 8% of epigallocatechin-3-O-gallate ~ 4.5% of caffeine by HPLC
■	GUARANA	<i>Paullinia cupana</i> H.B. et K.	Seed	12% of total alkaloids by HPLC
■	OLIVE FRUIT	<i>Olea europea</i> L.	Fruit	≥10.0% of total polyphenols by spectrophotometry; ≥2.0% ≤3.5% of verbascoside, ≥4.5% of hydroxytyrosol and its derivatives by HPLC
■	OPLODEX™	<i>Quercus</i> spp. <i>Camellia sinensis</i> (L.) O. Kuntze <i>Vitis vinifera</i> L.	Wood Leaf Seed	Balanced and synergistic combination of polyphenolic botanical extracts
■	QUASSELECT®	<i>Quassia amara</i> L.	Wood	≥53.0% ≤57.0% as sum of quassin and neoquassin by HPLC



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