



 **indena**<sup>®</sup>  
INDUSTRIA  
DERIVATI  
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# FOOD & FLAVOURS PRODUCT LIST



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

## **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, 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 more than 90 years of experience to prove it.

**Excellence in botanical derivatives**

# BOTANICAL EXTRACTS WITH ORGANOLEPTIC PROPERTIES



| BRAND - ENGLISH NAME   | BOTANICAL ORIGIN                        | PLANT PART     | ASSAY   |
|------------------------|---|----------------|---|
| AMMONIUM GLYCYRRHIZATE | <i>Glycyrrhiza glabra</i> L.            | Root           | ≥98% of monoammonium glycyrrhizate  |
| STAR ANICE             | <i>Illicium verum</i> Hook. f.          | Fruit          | TBD   |
| ARTICHOKE              | <i>Cynara cardunculus</i> L.            | Leaf           | ≥0.3% flavonoids expressed as luteolin-7-O-glucoside,<br>≥2.5% caffeoylquinic acid expressed as chlorogenic acid,<br>≥0.6% chlorogenic acid by HPLC |
| BALM MINT              | <i>Melissa officinalis</i> L.           | Flowered head  | ≥10% of hydroxycinnamic derivatives calculated as rosmarinic acid   |
| CHAMOMILE              | <i>Matricaria recutita</i> L.           | Flowering head | ≥1.2% of total apigenin by HPLC   |
| CINCHONA               | <i>Chincona</i> spp.                    | Bark           | ≥19% ≤21% of total alkaloids by HPLC  |
| CURCUMIN PHYTOSOME® WA | <i>Curcuma longa</i> L.                 | Rhizome        | ≥29% ≤33% of natural curcumin and sunflower lecithin  |
| GINSENG 1%             | <i>Panax ginseng</i> C.A. Meyer         | Root           | 1% of total ginsenosides and malonyl-ginsenosides calculated on the dried substance by colorimetry  |
| GINSENG 2%             | <i>Panax ginseng</i> C.A. Meyer         | Root           | 2% of total ginsenosides and malonyl-ginsenosides calculated on the dried substance by colorimetry  |
| GINSENG 10%            | <i>Panax ginseng</i> C.A. Meyer         | Root           | 10% of total ginsenosides and malonyl-ginsenosides calculated on the dried substance by HPLC  |
| GRAPE SEED             | <i>Vitis vinifera</i> L.                | Seed           | ≥95.0% of proanthocyanidins by spectrophotometry,<br>≥5.0% ≤15.0% of catechin and epicatechin by HPLC   |
| GREEN COFFEE           | <i>Coffea arabica</i> L.                | Green seed     | ≥15.0% ≤25.0% of caffeoylquinic acids expressed as chlorogenic acid,<br>≥12.0% ≤17.0% of chlorogenic acid,<br>~5% caffeine by HPLC                  |
| GREEN TEA              | <i>Camellia sinensis</i> (L.) O. Kuntze | Young Leaf     | ≥40% of total polyphenols by spectrophotometry;<br>≥15% of total catechin expressed as epigallocatechin-3-O-gallate,<br>~4.5% of caffeine by HPLC   |

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)



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|----------------------|--|----------------------------|--|
| GUARANA              | <i>Paullinia cupana</i> H.B. et K.   | Seed                       | ≥12% of total alkaloids by HPLC  |
| HOPS                 | <i>Humulus lupulus</i> L.  | Flowered head              | ≥0.3% of flavonoids by HPLC  |
| HORSETAIL            | <i>Equisetum arvense</i> L.  | Herb                       | ≥2.6% ≤3.2% of silica according to MDHPLD11 and ≥0.8% of total flavonoids expressed as isoquercetin by spectrophotometry                                     |
| LICORICE             | <i>Glycyrrhiza glabra</i> L.   | Root                       | ≥5.0% ≤6.2% of glycyrrhizic acid by HPLC   |
| MILLET               | <i>Panicum miliaceum</i> L.  | Seed                       | ≥3.0% of total fatty acids by GC   |
| OLIVE FRUIT          | <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                           |
| OPLODEX™             | <i>Quercus</i> spp.<br><i>Camellia sinensis</i> (L.) O. Kuntze<br><i>Vitis vinifera</i> L. | Wood<br>Young leaf<br>Seed | Balanced and synergistic combination of polyphenolic botanical extracts  |
| PASSION FLOWER       | <i>Passiflora incarnata</i> L.   | Aerial part                | ≥2.0% ≤2.6% of total flavonoids by spectrophotometry   |
| QUASSELECT®          | <i>Quassia amara</i> L.  | Wood                       | ≥53.0% ≤57.0% as sum of quassin and neoquassin by HPLC   |
| RED LEAF GRAPE       | <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;<br>≥0.3% of anthocyanins by spectrophotometry |
| LOVAGE               | <i>Levisticum officinale</i> W. D. J. Koch   | Root                       | TBD  |

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