

# NATpharma™

Product list



By **NATUREX**   
Ultimate Botanical Benefits

## Natural Choice

Naturex is a significant supplier of pharmaceutical ingredients, with both European and North American presence. Naturex industrial plants are audited by international pharmaceutical companies on a regular basis.

On a European scale, each manufacturer of pharmaceutical products will have to comply with the «Traditional Medicinal Products Directive» [2004/24/EC]. This is why Naturex has compiled Active Substance Master Files (ASMFs) for many herbal extracts, allowing their use in finished pharmaceutical products such as Traditional Herbal Remedies (THR).

## Uncompromising quality

The Milan facility follows current Good Manufacturing Practices (cGMP) and is approved by the Italian Ministry of Health for the production of Active Pharmaceutical Ingredients (A.P.I.). The New Jersey facility is approved by the US Food and Drug Administration (F.D.A.) for the manufacture of A.P.I.

Naturex manufactures a line of herbal extracts that covers a broad range of pharmaceutical product applications. The level of active compounds and the quality are guaranteed through the use of in-house analysis (HPLC, HPLC-MS, TLC, PPSL, GC, GC-MS, ICP, ICP-MS, NMR, pesticides, Microbiology...).

## Expertise and consulting

Naturex offers a large range of quantified extracts for THR and standardised extracts for WEU. A complete Active Substance Master File (ASMF) in eCTD format (Electronic Common Technical Document) is provided with each A.P.I. In addition, Naturex proposes contract manufacturing for A.P.I. Naturex can develop tailor made extract to meet customer specifications (powder or liquid extract). The use of high capacity roller compactors also allows for the production of dry granulated extracts with enhanced physical properties. Naturex can offer partnership from the extraction of plants to the production of finished herbal medicinal products.



## Extracts with Active Substance Master Files (ASMFs) in eCTD format \*

Product	Latin name	Plant part	Extraction solvent (v/v)	Quantification Standardization	DER genuine	Application
Astragalus	Astragalus membranaceus	Root	Ethanol 70%	0,1-0,2% total Isoflavones as sum of Ononin, Calycosin and Formononetin	8-9 : 1	Common cold
Black Cohosh	Cimicifuga racemosa	Root	Ethanol 75%	2,5-3% Triterpene glycosides calculated as 23-epi-26-deoxyactein	5-8 : 1	Menopausal complaints
Celery	Apium graveolens	Seed	Ethanol 50%	0,65-0,90% Apiin	4-6 : 1	Urinary tract
Chasteberry	Vitex agnus castus	Fruit	Ethanol 75%	0,8-1% Agnuside	6-8 : 1	Premenstrual syndrome
Dandelion	Taraxacum officinale	Root	Ethanol 60%	0,3-0,4% sum of Chlorogenic acid and Chicoric acid	3-5 : 1	Digestive disorders
Devil's Claw	Harpagophytum procumbens	Root	Ethanol 60%	1,5-2,5% Harpagoside	3,5-5 : 1	Articular pain, Digestive disorders
Dong Quai	Angelica sinensis	Root	Ethanol 70%	0,07-0,1% Ferulic acid	2-3 : 1	Premenstrual, Menopausal symptoms
Echinacea	Echinacea purpurea	Root	Ethanol 75%	5-8% Total phenols, as sum of Caftaric acid, Chicoric acid, Chlorogenic acid and Echinacoside	6-8 : 1	Common cold, Upper respiratory tract
Goldenseal	Hydrastis canadensis	Root	Ethanol 70%	5-7% Hydrastine 14-18% sum of Hydrastine and Berberine	4-6 : 1	Common cold, Digestive aid
Gotu Kola	Centella asiatica	Leaf	Ethanol 70%	4,5-5,5% Total triterpenoid derivatives expressed as Asiaticoside	3-5 : 1	Venous circulation, Skin inflammation
Great Burdock	Arctium lappa	Root	Ethanol 70%	0,15-0,25% sum of Chlorogenic acid, Cynarin 1,3, Cynarin 1,5 content	2-4 : 1	Urinary tract
Hawthorn	Crataegus spp.	Leaf & Flower	Ethanol 75%	6-7% Flavonoids as Hyperoside	4-6 : 1	Nervous heart complaints
Horse Chestnut	Aesculus hippocastanum	Seed	Ethanol 80%	18-22% Triterpenic saponins expressed as anhydrous escin	5-8 : 1	Heavy legs, Venous circulatory disturbances, Signs of bruises
Horsetail	Equisetum arvense	Aerial part	Water 100%	1,5-2,5 % Silica	4-6 : 1	Flushing of the urinary tract, Urinary complaints
Lemon Balm	Melissa officinalis	Leaf	Ethanol 50%	6-8% Rosmarinic acid	4-6 : 1	Mental stress, Sleep disorders, Gastrointestinal complaints
Marshmallow	Althaea officinalis	Root	Water 100%	25-40% Polysaccharides	3-9 : 1	Laryngeal mucosa irritation and dry cough
Milk Thistle	Silybum marianum	Fruit	Acetone	30-65% Silymarin as Silibinin 20-45% sum of Silicristin and Silidianin as Silymarin 40-65% sum of Silibinin A and Silibinin B as Silymarin 10-20% sum of Isosilibinin A and Isosilibinin B as Silymarin	25-30 : 1	To relieve the symptoms associated with occasional over indulgence of food and drink such as indigestion and upset stomach
Muirá Puama	Ptychopetalum olacoides	Wood	Ethanol 50%	7-8,5% Flavonoids as rutin	11-16 : 1	Libido - Sexual dysfunction
Raspberry	Rubus idaeus ssp. idaeus	Leaf	Ethanol 70%	2-3% Rutin	6-8 : 1	Upper respiratory tract, Menstrual complaints
Red Clover	Trifolium pratense	Inflorescence	Ethanol 75%	6-8% total Isoflavones calc. as the sum of Daidzein, Genistein, Formononetin and Biochanin A	15-20 : 1	Common cold, Menopausal symptoms
Rhodiola	Rhodiola rosea	Root	Ethanol 80%	1,5-2,5% total Rosavins as sum of Rosarin, Rosavin and Rosin 1-1,5% Salidroside	5-6 : 1	Stress, Exhaustion, Relief of mild anxiety
St John's Wort	Hypericum perforatum	Flower	Ethanol 60%	0,30-0,35% total Hypericins expressed as Hypericin 0,10-0,30% Hypericin + Pseudohypericin	5-7 : 1	Depressive episodes, Mental exhaustion
Tribulus	Tribulus terrestris	Fruit	Ethanol 75%	2-4% Protodioscin	4-7 : 1	Sexual dysfunction - Exercise performance enhancement
Valerian	Valeriana officinalis	Root	Ethanol 70%	0,5-0,8% Sesquiterpenic acids content (calculated as Valerenic acid)	5-6 : 1	Mental stress, Nervous tension, Sleep disorders
Valerian Deodorized	Valeriana officinalis	Root	Ethanol 70%	0,4-0,6% Sesquiterpenic acids content (calculated as Valerenic acid)	5-6 : 1	Mental stress, Nervous tension, Sleep disorders
Wild Yam	Dioscorea villosa	Root	Ethanol 75%	0,3-0,6% Dioscin	10-14 : 1	Menopausal complaints
Witch Hazel	Hamamelis virginiana	Leaf	Ethanol 53%	1-1,5% Gallic acid and Hamamelitannin	2-4 : 1	Cutaneous use: Minor skin inflammation and dryness of the skin Cutaneous and rectal use: Haemorrhoids Oromucosal use: minor inflammatory condition

Excipient with Drug Master File (DMF) approved in Europe, USA and Japan.

**TALIN**® : bitterness masker

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A business unit specialized in the development of botanical extracts and natural ingredient concepts backed by scientific studies for pharmaceutical, dietary supplement and nutraceutical applications.



### Personal Care

A business unit specialized in the development of natural ingredient concepts backed up with biological studies, botanical extracts that have been specifically formulated and functional ingredients for cosmetic applications.