

NovaPhyRT[®]

Plant Root Biomass Catalog

2024



NovaPhyRT[®]



**A New Resource of Plant
by NovaPhyRT[®] Biotechnology**

**A Solution to Obtain
Stable Traceable and High Quality
Plant Materials**



NovaPhyRT®

- Active compounds better developed compared to field cultivation
- Short cycle of harvest between 3-4 weeks in average
- In-door cultivation fully traceable under controlled environment
- No hormones nor antibiotics needed for growth
- No any residue of pesticides or heavy metals in harvested biomass
- Save costs for customers thanks to easy handling and ready-to-use materials
- Non-GMO technology



NovaPhyRT®

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Yarrow Root Biomass (The Military Herb)



Description

Latin name: *Achillea millefolium*

Origin: Switzerland

Physical aspect: Dried biomass
Light brown

Main compounds: Flavonoids
Sesquiterpene lactones
Phenolic acids
Tannins

Application

Cosmetica: - Antioxidant activity

Pharma:

- Antimicrobial
- Anti-inflammatory
- Anticancer
- Anti-hypertensive
- Gastroprotective
- Diuritic activity
- Pain Killer



Marshmallow Root Biomass

(The Official Healer)



Description

Latin name: *Althaea officinalis*

Origin: Switzerland

Physical aspect: Dried biomass
Beige to brown

Main compounds: Flavonoids
Mucilage polysaccharides

Application

Cosmetica: - Antioxidant activity
- Soothing
- Tissue regeneration

Pharma: - Anti-inflammatory
- Antimicrobial activity
- Antitussive
- Hypoglacaemic
- Immunomodulatory



Absinthe Root Biomass (Grand Wormwood)



Description

Latin name: *Artemisia absinthium*

Origin: Switzerland

Physical aspect: Dried biomass
Light brown

Main compounds: Absinthin
Sesquiterpene lactones

Application

Cosmetica: - Spirits and wines
- Tea

Pharma: - Antibacterial
- Antipyretic
- Antimalarial
- Anthelmintic
- Hepatoprotective effect
- Indigestion treatment



Astragalus Root Biomass (Mongolian milkvetch)



Description

Latin name: *Astragalus membranaceus*

Origin: Switzerland

Physical aspect: Dried biomass
Beige to light brown

Main compounds: Flavonoids
Saponins

Application

Cosmetica: - Antioxidant activity

Pharma:

- Anti-inflammatory
- Increase immune system
- Treats cough and cold
- Increase metabolite rate
- Strengthens bones
- Maintains cardiovascular health



Hemp Root Biomass (The Kind Herb)



Description

Latin name: *Cannabis sativa*

Origin: Switzerland

Physical aspect: Dried biomass
Light brown

Main compounds: Terpenes
Phenolic compounds

Application

Cosmetica: - Antioxidant activity
- Anti-ageing effect
- Soothing

Pharma: - Antimicrobial activity
- Anti-inflammatory
- Analgesic effect



Liquorice Root Biomass

(The sweet Root)



Description

Latin name: *Glycyrrhiza glabra*

Origin: Switzerland

Physical aspect: Dried biomass
Light brown

Main compounds: Glycyrrhizin
Glycyrrhetic acid
Flavonoids

Application

Cosmetica: - Soothing
- Skin brightening

Pharma: - Respiratory disorders treatment
- Eczema treatment
- Anti-inflammatory
- Hepatoprotective effect

Food: - Flavoring agent in tobacco and candy



Chinese liquorice Root Biomass

(The unique guide drug)



Description

Latin name: *Glycyrrhiza uralensis*

Origin: Switzerland

Physical aspect: Dried biomass
Light brown

Main compounds: Flavonones
Glycyrrhizin
Liquiritin
Glycyrrhizic acid

Application

Cosmetica:

- Antioxidant
- Soothing
- Skin whitening

Pharma:

- Anti-inflammatory
- Anticancer
- Antimicrobial effect
- Antiviral
- Antidiabetic



Jiaogulan Root Biomass (The Herb of Immortality)



Description

Latin name:	<i>Gynostemma pentaphyllum</i>
Origin:	Switzerland
Physical aspect:	Dried biomass Yellow to light brown
Main compounds:	Saponin glycosides (Gypenosides) Flavonoids

Application

Cosmetica:	- Anti-ageing effect - Antioxidant activity
Pharma:	- Antidiabetic properties - Anti-cancer activity - Anti-inflammatory - Cardio protective effect - Memory enhancing



Rose Balsam Root Biomass (The Jewel Plant)



Description

Latin name: *Impatiens balsamina*

Origin: Switzerland

Physical aspect: Dried biomass
Red and brown

Main compounds: Naphthoquinones
Anthocyanins
Phenols
Flavonoids

Application

Cosmetica: - Treatment of skin affliction
- Antioxidant activity

Pharma: - Anti-inflammatory
- Antimicrobial activity
- Antifungal activity
- Analgesic activity
- Anti-cancer activity



Edelweiss Root Biomass (Star of the Alps)



Description

Latin name: *Leontopodium alpinum*

Origin: Switzerland

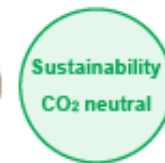
Physical aspect: Dried biomass
light brown

Main compounds: Leoligin
Terpenoids
Flavonoids

Application

Cosmetica: - Anti-ageing effect
- Antioxidant activity
- Protect from UV rays

Pharma: - Antitussive
- Improve digestion
- Diarrhoea treatment



Maca Root Biomass (The Energizer Plant)



Description

Latin name: *Lepidium meyenii*

Origin: Switzerland

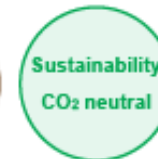
Physical aspect: Dried biomass
Yellow to light brown

Main compounds: Macamides
Macaenes

Application

Cosmetica: - Antioxidant activity
- Protection against UV radiation

Pharma: - Increase Libido
- Memory enhancing
- Energy enhancing



Flax Root Biomass (The Soothing Root)



Description

Latin name: *Linum usitatissimum*

Origin: Switzerland

Physical aspect: Dried biomass
Yellow to light brown

Main compounds: Phytochelatins
Lignans
Phenolic compounds

Application

Cosmetica:

- Soothing
- Anti-ageing effect
- Anti bacterial activity
- Antifungal activity
- Hair growth promoters

Pharma: - Phytoremediation



Basil Root Biomass (The Royal Herb)



Description

Latin name: *Ocimum basilicum*

Origin: Switzerland

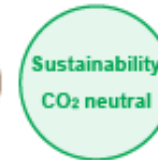
Physical aspect: Dried biomass
Light to dark brown

Main compounds: Rosmarinic acid
Caffeic acid
Flavonoids

Application

Cosmetica: - Antioxidant activity
- Anti-hairloss

Pharma: - Antimicrobial activity
- Anti-inflammatory



Ginseng Root Biomass (The Plant of Emperors)



Description

Latin name: *Panax ginseng*

Origin: Switzerland

Physical aspect: Dried biomass
Yellow to light brown

Main compounds: Ginsenosides

Application

Cosmetica: - Anti-ageing effect on skin and hair
- Antioxidant activity

Pharma: - Adaptogenic effect
- Energy, endurance and strength
- Memory enhancing
- Anti-inflammatory
- Immunomodulatory
- Cardio- and liver-protective properties



Madder Root Biomass (The Herb of Mars)



Description

Latin name: *Rubia tinctorum*

Origin: Switzerland

Physical aspect: Dried biomass
Orange to dark red

Main compounds: Anthraquinones

Application

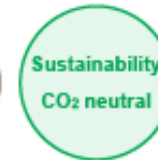
Cosmetica:

- Skin conditioning
- Soothing
- Tonic
- Hair coloring
- Anti-bacterial activity

Pharma:

- Lipid profile improving
- Hyperglycaemia normalizing
- Liver tissue structure and function enhancing

Industrial: - Colorant / dye



Sage Root Biomass

(The Herb of Health and Wisdom)



Description

Latin name: *Salvia officinalis*

Origin: Switzerland

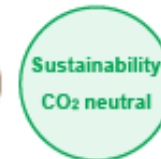
Physical aspect: Dried biomass
Yellow to light brown

Main compounds: Rosmarinic acid
Terpens
Flavonoids

Application

Cosmetica: - Antioxidant activity

Pharma: - Anti-inflammatory
- Antimicrobial effect
- Antifungal activity
- Antimutagenic effect
- Anti-cancer properties



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