

Bionatrix™ Artichoke

Botanical Name: *Cynara scolymus*

Used Part(s): Leaf



Description:

Traditionally, artichoke leaves are used for the detoxification of the body, gastrointestinal well-being and digestive disorders. Bioactive compounds found in artichoke leaves have diuretic, choleric and detoxifying activities. The plant is rich in caffeoylquinic acids (such as chlorogenic acid and cynarin) and flavonoids. Caffeoylquinic acids play a major role in bile formation, bowel function and hepatoprotective activities while the flavonoids of the plant inhibit cholesterol biosynthesis and LDL oxidation. In addition; cynarine, chlorogenic acid and luteolin show antioxidant activities.

Technical Data:

<u>Analysis</u>	<u>Method</u>	<u>Specification</u>
PLANT SPECIFICATION		
Total ash for herb	Residue on Ignition	NMT 10%
Pesticides	GC/MS, LC-MS/MS	Comply with Ph. Eur.
Aflatoxin		Absent
Benzo(a)pyrene (PAH)	ISO 15302	Must comply
PRODUCT SPECIFICATION		
Description	Visual inspection	Brownish or light-brown powder
Odor	Organoleptic	Characteristic
Characteristic gravity	Ph. Eur. (2.2.5)	
Particle size		100% pass 80 mesh
Solubility in water		Partially water soluble
ASSAY		
Cynarin	UV-VIS Spectrophotometry	NLT 5%
Loss on Drying (%)	Ph. Eur. (2.8.17)	NMT 5%
Solvent residue (ppm)	Headspace GC	
Ethanol		NMT 5000
Heavy metal (ppm)		
Arsenic	ICP – OES	NMT 10
Cadmium		NMT 3
Lead		NMT 3
Mercury		NMT 3
Chromium		NMT 10
MICROBIOLOGICAL ASSAY		
Standard plate count (cfu/g)	ISO 4833:2003	NMT 10000
Yeast & mold (cfu/g)	FDA BAM Chapter 18	NMT 1000
<i>Escherichia coli</i>	ISO 16649-2	Absent in 1 g
<i>Salmonella</i>	ISO 6579	Absent in 10 g
<i>Pseudomonas aeruginosus</i>	ISO 13720	Absent in 1 g
<i>Staphylococcus aureus</i>	ISO 6888-1	Absent in 1 g

Activities:

Bionatrix™ Artichoke has pharmaceutical, nutritional and personal care activities that include, but are not limited to, Liver Protection, Cholesterol Health, Gastrointestinal Health, Choleric, and Antioxidant.



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