

Bionatrix™ St. John's Wort

Botanical Name: *Hypericum perforatum* L.

Used Part(s): Flowering tops



Description:

St. John's Wort (*Hypericum perforatum*) is an herb that has been used for centuries for medicinal purposes including treating depression and has a wide reputation as an antidepressant. It contains several chemicals, including hypericin, hyperforin, and pseudohypericin, which are thought to be major contributors of antidepressant activity. St. John's Wort also has anti-inflammatory properties.

Technical Data:

Analysis	Method	Specification
PLANT SPECIFICATION		
Total ash for herb	Ph. Eur. (2.4.16)	NMT 10%
Pesticides	GC/MS, LC-MS/MS	Comply with Ph. Eur. (2.8.13)
Aflatoxin	AOAC 999.07	Comply with Ph. Eur. (2.8.18)
Ochratoxins	AOAC 2004.10	Comply with Ph. Eur. (2.8.22)
Benzo(a)pyrene (PAH)	JOSS 2002,25,96-100	NMT 50 ppb
PRODUCT SPECIFICATION		
Description	Visual inspection	Brown or brownish grey powder
Odor	Organoleptic	Characteristic
Particle size		100% pass 80 mesh
ASSAY		
Hypericins	UV-VIS Spectrophotometry	NLT 0.3%
Loss on Drying (%)	Ph. Eur. (2.8.17)	NMT 6%
Solvent residue (ppm)	Headspace GC	
Ethanol		NMT 5000
Heavy metal (ppm)		
Arsenic	ICP – OES	NMT 1
Cadmium		NMT 3
Lead		NMT 1
Mercury		NMT 0.1
MICROBIOLOGICAL ASSAY		
Total aerobic microbial count (cfu/g)	ISO 4833:2003	NMT 10000
Yeast & mold (cfu/g)	FDA BAM Chapter 18	NMT 100
<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™ St. John's Wort has pharmaceutical, nutritional and personal care activities that include, but are not limited to, Antidepressant, Anti-inflammatory, Antiseptic, and suitability for Sensitive or Irradiated Skin.



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