

# Bionatr<sup>TM</sup> Passion Flower

**Botanical Name:** *Passiflora incarnata* L.

**Used Part(s):** Leaf



## Description:

*Passiflora incarnata* (purple passion flower) is a common wildflower in the United States. Egg-shaped fruits called maypops are used by the natives for making tea. Tea is also made from its roots and it has been used for the relief of nervousness and anxiety for many years. Passion flower is considered to be a drug attributed primarily to the alkaloids and flavonoids and other phyto-constituents. Passion flower extract which is obtained from the herb contains flavonoids as vitexin reach up to 3.5% of total content. Passion flower extract is commonly used for the treatment of different diseases like dysmenorrhoea, high blood pressure, irregular heartbeat, asthma, muscle spasm, menstrual cramps, palpitations, epilepsy and insomnia.

## Technical Data:

<b>Analysis</b>	<b>Method</b>	<b>Specification</b>
<b>PLANT SPECIFICATION</b>		
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
<b>PRODUCT SPECIFICATION</b>		
Description	Visual inspection	Brown powder
Odor	Organoleptic	Characteristic
Particle size		100% pass 80 mesh
<b>ASSAY</b>		
Vitexin	<b>UV-VIS Spectrophotometry</b>	<b>NLT 3.5%</b>
Loss on Drying (%)	Ph. Eur. (2.8.17)	NMT 5%
<b>Solvent residue (ppm)</b>		
Ethanol	Headspace GC	NMT 5000
<b>Heavy metal (ppm)</b>		
Arsenic	ICP – OES	NMT 10
Cadmium		NMT 3
Lead		NMT 3
Mercury		NMT 3
Chromium		NMT 10
<b>MICROBIOLOGICAL ASSAY</b>		
Total aerobic microbial 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:

Bionatr<sup>TM</sup> Passion Flower has pharmaceutical, nutritional and personal care activities that include, but are not limited to, Antioxidant, Anti-acne, Healthy hair and scalp, Anti-inflammatory, Diuretic, Gastrointestinal Health, and Hepatoprotective.



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