

Bionatrix™ Organic Olive Leaf

Botanical Name: *Olea europaean*

Used Part(s): Leaf



Description:

Olive is one of the most popular traditional plants that has been used medicinally for centuries to enhance the functioning of the immune system and to help manage viral infections. Bionatrix™ Organic Olive Leaf Extract is a rich source of phenolic compounds with potent free radical-scavenging properties. The active constituent “oleuropein” obtained from the plant (*Olea europaea*) leaves can help lower bad cholesterol and blood pressure, and prevent oxidative damage. In addition, it’s anti-inflammatory and antioxidant properties offer promise in fighting atherosclerosis, diabetes, cancer, neurodegenerative diseases, and even arthritis.

Technical Data:

| Analysis | Method | Specification |
|--------------------------------|--------------------|--------------------------------|
| PLANT SPECIFICATION | | |
| Total ash for herb | Ph. Eur. (2.4.16) | NMT 9% |
| 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) | ISO 15302 | Must comply |
| PRODUCT SPECIFICATION | | |
| Description | Visual inspection | Brown or greenish-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 | | |
| Oleuropein | HPLC | NLT 20% |
| 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™ Organic Olive Leaf has pharmaceutical, nutritional and personal care activities that include, but are not limited to, Antioxidant, Cardiovascular Support, Cholesterol Lowering, Anti-inflammatory, and Antimicrobial.



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