



Certificate of Analysis

Product information

Product name **Nettle Root Extract**
 Botanical name **Urtica Dioica**
 Plant part **Root**
 Country of origin **P.R.CHINA**

Batch information

Batch no. **4310501**
 Best Before End **January 2020**

Analysis item	Specification	Result	Analysis test method
Assay	4 to 1		
Organoleptic properties			
Appearance ¹	Fine Brownish Yellow powder	Conform to specification	Visual
Taste	Typical to botanical	Conform to specification	Gustatory
Odor	Typical to botanical	Conform to specification	Olfactory
Physical properties			
Sieve analysis	90% pass 80 mesh	Conform to specification	Mesh screen or equivalent
Moisture content	≤5%	4.15%	IR balance or equivalent
Ash	≤5%	4.58%	2g/525°C/5hrs or equivalent
Heavy metals²			
Arsenic (As)	≤ 1 ppm	Conform to specification	AA or equivalent
Cadmium (Cd)	≤ 1 ppm	Conform to specification	AA or equivalent
Lead (Pb)	≤ 3 ppm	Conform to specification	AA or equivalent
Mercury (Hg)	≤ 0.1 ppm	Conform to specification	AA or equivalent
Total heavy metals	≤ 10 ppm	Conform to specification	Colorimetry or equivalent
Microbiology			
Total plate count	≤10000cfu/g	Conform to specification	AOAC or equivalent
Yeasts & Molds	≤1000cfu/g	Conform to specification	AOAC or equivalent
Salmonella	Absent/10g	Conform to specification	AOAC or equivalent
E.Coli	Absent/1g	Conform to specification	AOAC or equivalent
Sterilization method	High Temperature & High Pressure Short time (5" - 10")		
Identification	Positive	Conform to specification	TLC
Additional information			

Material Safety Data Sheet

Product Identification

Product trade name	Nettle Root Extract	Country of Origin	P.R. China
Type of product	Botanical / Plant Extract	Date of Issue/Revision MSDS	11 -04-18
Botanical/Chemical name	Urtica Dioica		
Product code	HENETTROOT		

CAS #	N/A	EINECS #	N/A
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Composition product

Botanical	Urtica Dioica	Physical form	Free flowing powder
Hazardous components	None	Colour (variations occur)	Brownish yellow
Process additive residues	NMT international standards	Taste	Typical to botanical
Ecological status	Not considered dangerous for environment	Odour	Typical to botanical
Hazardous decomposition	Unknown	Stability	Stable under normal handling and storage

Hazards identification

Emergency identification; See composition product and physical and chemical properties.	Fire Explosion hazard As with any fine particulate matter, accumulation of excessive dust on overhead structures may produce explosive concentrations when disturbed or dispersed.
Health effects; No harmful effects at normal application use have been identified. Consult medical advice for dosage application requirements and possible side effects of product. Abundant consumption can affect health status. Supplier of product is not responsible for any health-related issues and incidents. In case of irritation oral skin eyes inhalation ; review measures in first aid measures section	Fire Extinguishing Procedures; Do not enter any enclosed or confined fire space without wearing full protective clothing and self-contained breathing apparatus approved for firefighting. This is necessary to protect against the hazards of heat, products of combustion and oxygen deficiency. Do not breath smoke, gases or vapors generated. Comply to applicable laws and regulations in respect of fire extinguishing. Extinguishing Media; Carbon Dioxide Water spray Dry chemicals.

Prevention measures

Personal protective measures; Eyes and Face ; Whenever airborne dust concentrations are high, appropriate protective eyewear, such as mono-goggles, should be worn to prevent eye contact. Inhaling protection ; Whenever dust, in the worker's breathing zone, cannot be controlled with ventilation, workers should wear respirators that are approved for protection against airborne dust. Protective clothing ; No special clothing required Gloves ; No special gloves required	First aid measures Eyes; Flush thoroughly with water (minimum 15 min.), including under the eyelids. Call for medical attention if irritation continues. Skin; Wash thoroughly with soap and water. Wash contaminated cloths before re-use. Ingestion; Rinse mouth first and drink plenty of water after. Call for medical attention if discomfort continues. Inhalation; Remove to fresh air. Call for medical attention if breathing difficulties or discomfort continues.
Other preventive notifications; Powder becomes slippery when wet. Maintain good housekeeping practices to minimize accumulation of settled dust, especially on overhead surfaces. Sweep up the spilled material and dispose of in accordance with the waste disposal method outlined in disposal section in this document.	Toxicological effects; Eyes, skin, ingestion and inhalation effects; Low hazard for usual industrial handling but irritation might occur. Acute and/or chronic effects from overexposure; no indication of acute and/or chronic effects.

Handling, storage and disposal

Handling; Use proper ventilation/exhaust system to control exposure to dust. Maintain good housekeeping practices. Use safe lifting techniques when manually moving containers. Comply with national regulations in respect of manual lifting weights. Storage; Store in tight containers in cool, dry, dark and ventilated environment. Do not store above 20 °C and avoid direct sunshine exposure. Disposal; No special disposal instructions. Comply with applicable local, state, and federal laws and regulations.	Other information User of product is fully responsible for the compliance to the relevant local, state and federal laws and regulations in respect of application, specifications, process, safety, consumption, health and any other relevant items. Supplier of product cannot be held responsible for any violation of local, state or federal laws and regulations in respect of application, specifications, process, safety, consumption, health and another relevant items. Supplier of product cannot be held responsible for any misconduct by user in respect of application, specifications, process, safety, consumption, health and other relevant items. MSDS is intended to provide safety, hazard and usage information. Supplier cannot be held responsible by this MSDS of non-compliance to existing MSDS regulations in user applicable local, state or federal laws.
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Disclaimer

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Nettle Root Extract

Product

Name	Nettle Root Extract
Botanical name	Urtica Dioica
Product code	HENETTROOT
Plant part	Root
Country of origin	P.R.CHINA

Physical and Chemical Properties

Appearance ¹	Brownish Yellow, FINE POWDER	Visual
Taste	Typical to botanical	Gustatory
Odor	Typical to botanical	Olfactory
Sieve analysis	80	Mesh screen
Moisture	≤5%	IR balance
Ash	≤5%	2g/525°C/5hrs

Microbiology

Total plate count	≤10000cfu/g	AOAC
Yeasts & Molds	≤1000cfu/g	AOAC
Salmonella	Absent/10g	AOAC
E.Coli	Absent/1g	AOAC
Sterilization method	High Temperature & High Pressure Short time (5" - 10")	

Packaging | Storage³

Packaging	Carton drum inner double layer plastic bag
Storage	Cool, dry, dark, airtight environment. Storage of products at room temperature Keep away from sunshine and moisture Reclose packaging tightly after use
Re-test date	24 months after manufacture date in original packaging and advised storage condition

Heavy metals²

Arsenic (As)	≤ 1 ppm	AA or equivalent
Cadmium (Cd)	≤ 1 ppm	AA or equivalent
Lead (Pb)	≤ 3 ppm	AA or equivalent
Mercury (Hg)	≤ 0.1 ppm	AA or equivalent
Total heavy metals	≤ 10 ppm	Colorimetry or eq.
Identification	Positive	TLC

Additional product information

Composition

Assay

4 to 1