

TECHNICAL DATA SHEET

Ginger Root Extract

Gingerols 6% HPLC

Chemical Properties

Botanical source: *Zingiber officinale*

Part used: Root

Extract Solvents: Ethanol & Water

Irradiation : Non irradiated

Description

Ginger root extract is from *Zingiber officinale*, the most active chemical compounds in ginger are known as the gingerols, which are also the most aromatic compounds in this root.

Solubility

Partially soluble in water.

Specification

Item	Specification	Test Method
Appearance	Light yellow brown powder	Organoleptic
Odor & Taste	Characteristic	Organoleptic
Identification(TLC)	Identical to R.S. sample	In-house
Assay(Gingerols)	Min 6.0%	HPLC, in-house
Particle Size	Min 95% pass 80 mesh	USP36<786>
Loss on Drying	Max 5.0%	EP7.0
Ash	Max 5.0%	EP7.0
Bulk density	40~60g/100mL	Eur.Ph.7.0 <2.9.34>
Heavy metals	Max 10ppm	Eur.Ph.7.0<2.2.58>ICP-MS
As	Max 1ppm	Eur.Ph.7.0<2.2.58>ICP-MS
Pb	Max 1ppm	Eur.Ph.7.0<2.2.58>ICP-MS
Cd	Max 1ppm	Eur.Ph.7.0<2.2.58>ICP-MS
Hg	Max 0.1ppm	Eur.Ph.7.0<2.2.58>ICP-MS
BAP	Max 10.0ppb	Eur.Ph.
PAH4	Max 50.0ppb	Eur.Ph.
Solvent Residuals	Meets USP<467> requirements	USP34
Pesticide Residuals	Meets USP<561> requirements	USP34
Total Plate Count	Max 1000 cfu/g	USP34
Yeast & Mold	Max 100 cfu/g	USP34
<i>E. Coli</i>	Negative	USP34
<i>Salmonella</i>	Negative	USP34

Ingredients

Gingerols 6%

Labeling

In the United States and the European Union: Ginger Root Extract

Functions

- 1). It is widely used as a digestive agent for minor upset stomach.
- 2). It helps prevent or treat nausea and vomiting.
- 3). It has a strong antioxidant capacity.
- 4). It has the functions of invigorating stomach, resisting gastric ulcer, invigorating gallbladder, protecting liver, strengthening heart, inhibiting platelet aggregation, preventing halo, anti-tumor, central inhibition, enhancing immunity, anti-bacterial, insecticide and anti-inflammatory.

Applications

This product can be widely used in medicine, health care products and food additives.

Safety

This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

Handling recommendations

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible.

Packaging, Storage & Shelf Life

Package	Packaging suitable for food stuff, 25kg double food grade plastic bag in drum; or according to customers' requirements.
Storage	Store in cool & dry place. Keep away from strong light and heat.
Shelf Life	2 years if sealed and stored properly.