

TECHNICAL DATA SHEET

Ginger Root Extract

Gingerols 5% HPLC

Chemical Properties

Botanical source: *Zingiber officinale*

Part used: Root

Extract Solvents: Ethanol & Water

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	Brown fine powder	Organoleptic
Odor & Taste	Characteristic	Organoleptic
Identification	Peak time consistent with the standard sample	HPLC
Gingerols	Min 5.0%	HPLC
Particle Size	100% Through 80 mesh	CP2010
Loss on Drying	Max 5.0%	CP2010
Bulk Density	40-60g/100mL	USP36 <616>
Total Heavy Metals	Max 20ppm	CP2010
Lead	Max 2ppm	CP2010
Arsenic	Max 2ppm	CP2010
Residual Solvents(Ethanol)	Max 5000ppm	In-house
Total Plate Count	Max 1000cfu/g	GB 4789.2
Yeast & Mold	Max 100cfu/g	GB 4789.15
<i>E. Coli</i>	Negative	GB/T 4789.38
<i>Salmonella</i>	Negative	GB 4789.4
<i>Staphylococcus</i>	Negative	GB 4789.10

Ingredients

Gingerols 5.0%

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	25kg/drum; or according to customers' requirements.
Storage	Store in a well-closed container away from moisture and direct sunlight.
Shelf Life	2 years if sealed and stored properly.