



NATURAL HERBAL PRODUCTS

Black Ginger (*Kaempferia parviflora*)



Ethnopharmacology

Black Ginger or Black Galangal or 'Krachai Dum' in Thai (*Kaempferia parviflora*) is an herbaceous plant belonging to the Zingiberaceae family. Since ancient times, it has traditionally been used as a health promoting, stimulating and vitalizing agent.

This plant is very popular for stimulating sexual performance mostly in males and can be found in various products form currently available in the market. In Thai traditional medicine this plant is one of all popular plant, having been use for a long time.

Rejuvenation and sex enhancement

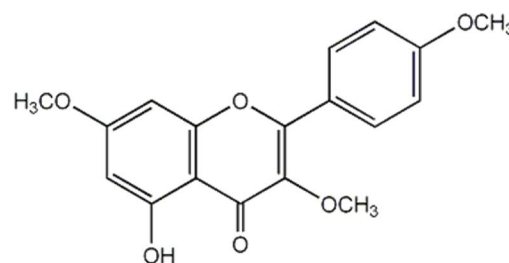
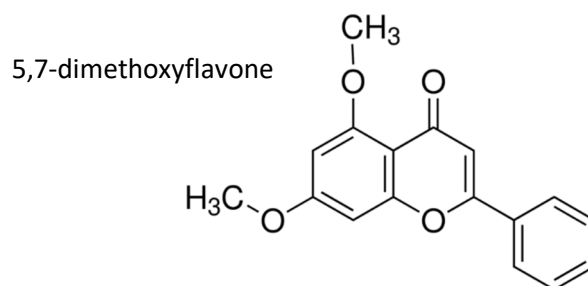
Black Ginger has many interesting properties and the one of the most interesting being sex enhancement and rejuvenation. Black Ginger contains substantial amounts of PDE5 inhibitors, which act similarly Viagra, with the ability to enhance sexual performance by increasing blood-flow to the testis and stimulating dopaminergic functions in the hypothalamus.

Furthermore, Black Ginger can increase sperm density and promote health through its Adaptogenic activity, reducing triglycerides, preventing diabetes and so on.



Chemical Constituents from *Kaempferia parviflora*

The chemical constituents from *Kaempferia parviflora* consist of 5,7-dimethoxyflavone, 5-hydroxy-3,7,4'-trimethoxyflavone and 5-hydroxy-3,7-dimethoxyflavone and major flavones compounds.



5-hydroxy-3,7,4'-trimethoxyflavone





NATURAL HERBAL PRODUCTS

Benefits

- Aphrodisiac activity (enhance sexual desire, sexual motivation and sexual performance)
- Increasing sperm density and increasing condensation of lysosome in the basal part of Sertoli cells
- Antiplasmodial, antifungal and mild antimycobacterial
- Excellent antioxidant
- Anti-inflammatory
- Adaptogenic activity
- Anti-allergic activity
- Anticholinesterase activity (prevent and cure Alzheimer's disease)
- Anti-gastric ulcer effect
- Antiobesity effect
- Anxiolytic and antidepressant effect

Applications

For your convenience, we have Black Ginger (*Kaempferia parviflora*) available in many forms to be used for various kinds of products such as dietary supplement, food & beverages and cosmetics.

- Dried chip
- Crude powder
- Extract liquid
- Extract powder

Quality Control

Total Flavonoids are used for standardization of crude extract by UV-visible spectrophotometer or HPLC analysis and also for control the quality

Dosage and Safety

Maximum dose depends on each country's FDA restrict

Packaging

Standard Package: Plastic bag
Plastic gallon container
Packaging can be provided in a variety of container types, depending on customs requirements.

Recommended Storage

Storage in cool and dry place away from light, excessive heat or freezing temperatures

Shelf life: 2 years

Documents

We provide copies of Specification Sheet, MSDS, Plant information and Certificate of analysis (COA).





NATURAL HERBAL PRODUCTS

Black Ginger (*Kaempferia parviflora*) Dried Chip

Specification Sheet	
General information	
Product name:	Black Ginger (<i>Kaempferia parviflora</i>) Dried Chip
Part of plant:	Rhizome
Origin:	Thailand
Shelf-life:	2 years
Physical analysis	
Appearance:	Dried chip
Color:	Purple to dark purple
Odor:	Aroma
Taste:	Hot, bitter
Moisture:	Not more than 8%
Active content analysis (Quantitative analysis)	
Active compounds (mg/100g):	5,7-Dimethoxyflavone not less than 0.5%
Heavy metal analysis	
Arsenic:	< 0.5 ppm
Lead:	< 1 ppm
Cadmium:	< 0.5 ppm
Mercury:	< 0.5 ppm
Pesticide residue analysis	
Organochlorine group:	Not detected
Organophosphate group:	Not detected
Pyrethroid group:	Not detected
Carbamate group:	Not detected
Microbiology analysis (maximum allowable data only, specific data based on COA)	
Total aerobic plate count:	<10 ⁶ cfu/g
Yeast and Mold:	<10 ³ cfu /g
Clostridium pefringens:	<10 cfu /g
Escherichia coli:	<10 MPN/g
Coliforms:	<10 ³ MPN/g
Pseudomonas aeruginosa:	Not detected
Samonella spp.:	Not detected
Strephylococcus aureus:	< 10 cfu/g
Streptococcus spp.:	Not detected

Revision Date: 30/05/2016; 10:00 h.



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Plant of Plants

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Black Ginger (*Kaempferia parviflora*) Powder

Specification Sheet	
General information	
Product name:	Black Ginger (<i>Kaempferia parviflora</i>) Powder
Part of plant:	Rhizome
Origin:	Thailand
Disinfection Method:	Heat treatment / Gamma irradiation (optional)
Shelf-life:	2 years
Physical analysis	
Appearance:	Fine powder
Color:	Purple brown
Odor:	Aroma
Taste:	Hot, bitter
Moisture:	Not more than 8 %
Particle Size:	80 mesh
Active content analysis (Quantitative analysis)	
Active compounds (mg/100g):	5,7-Dimethoxyflavone not less than 0.5%
Heavy metal analysis	
Arsenic:	< 0.5 ppm
Lead:	< 1 ppm
Cadmium:	< 0.5 ppm
Mercury:	< 0.5 ppm
Pesticide residue analysis	
Organochlorine group:	Not detected
Organophosphate group:	Not detected
Pyrethroid group:	Not detected
Carbamate group:	Not detected
Microbiology analysis (maximum allowable data only, specific data based on COA)	
Total aerobic plate count:	<10 ⁴ CFU/g
Yeast and Mold:	<100 CFU/g
Clostridium pefringens:	Not detected
Escherichia coli:	<3 MPN/g
Coliforms:	Not detected
Pseudomonas aeroginosa:	Not detected
Samonella spp.:	Not detected
Strephylococcus aureus:	Not detected
Streptococcus spp.:	Not detected

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Black Ginger (*Kaempferia parviflora*)

Micro-emulsion Extract Liquid

Specification Sheet	
General information	
Product name:	Black Ginger (<i>Kaempferia parviflora</i>) Extract Liquid
Part of plant:	Rhizome
Origin:	Thailand
Method of extraction:	Solid-liquid extraction
Shelf-life:	2 years
Physical analysis	
Appearance:	Colloid solution
Color:	Brown purple
Odor:	Pungent
Taste:	-
Active content analysis (Quantitative analysis)	
Active compounds:	5,7-Dimethoxyflavone not less than 0.5% and 1%
Heavy metal analysis	
Arsenic:	< 0.5 ppm
Lead:	< 1 ppm
Cadmium:	< 0.5 ppm
Mercury:	< 0.5 ppm
Microbiology analysis (maximum allowable data only, specific data based on COA)	
Total aerobic plate count:	< 10 ⁴ CFU/mL
Yeast and Mold:	< 100 CFU/mL
Clostridium pefringens:	Not detected
Escherichia coli:	< 3 MPN/mL
Coliforms:	Not detected
Pseudomonas aeruginosa:	Not detected
Samonella spp.:	Not detected
Strephylococcus aureus:	Not detected
Streptococcus spp.:	Not detected

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Black Ginger (*Kaempferia parviflora*) Extract Powder

Specification Sheet	
General information	
Product name:	Black Ginger (<i>Kaempferia parviflora</i>) Extract Powder
Part of plant:	Rhizome
Origin:	Thailand
Method of extraction:	Solid-liquid extraction
Method of drying:	Freeze Drying
Shelf-life:	2 years
Physical analysis	
Appearance:	Fine powder
Color:	Purple gray
Odor:	Aroma
Taste:	Bitter, pungent
Moisture:	Not more than 6 %
Particle Size:	60 mesh
Active content analysis (Quantitative analysis)	
Active compounds (g/100g):	5,7-Dimethoxyflavone not less than 2% and 5%
Heavy metal analysis	
Arsenic:	<2 ppm
Lead:	<1 ppm
Cadmium:	Not detected
Mercury:	Not detected
Microbiology analysis (maximum allowable data only, specific data based on COA)	
Total aerobic plate count:	<10 ³ CFU/g
Yeast and Mold:	<100 CFU/g
Clostridium pefringens:	Not detected
Escherichia coli:	<3 MPN/g
Coliforms:	Not detected
Pseudomonas aeroginosa:	Not detected
Samonella spp.:	Not detected
Strephylococcus aureus:	Not detected
Streptococcus spp.:	Not detected

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