



『Low Striped Bamboo (Coarse Grain·Powder·Extract·Extract Powder)』

Long Time Familiar Natural Material in the East



Antibacterial effect of Kumazasa : low striped bamboo is very famous, like a cake and rice ball wrapped in bamboo leaves. It has been described in "Shen Nong Materia Medica through" and "Materia Medica network" which are basic manual of modern Chinese medicine, and It has been used as traditional material for a long time.

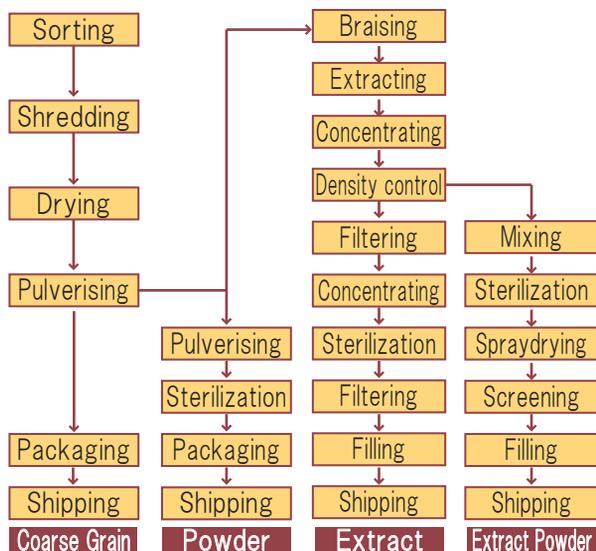
It has antiseptic and anti-inflammatory effect, and the recent study shows antitumor, sedative, diuretic, and antipruritic effect.

Only using new leaves of natural Kumazasa which is collected in a certain period of short summer in northern Hokkaido. The extract is extracted with mineral-rich Shikotsuko water that is filtered over a long time with the rich nature of Hokkaido. Plentiful amount of polysaccharides and amino acids are included in the extract, because it extracted only with water slowly and carefully.

■ Uses

Coarse Grain	Powder
◎ Tea ingredient	◎ Green juice
◎ Various kinds of food	◎ Health food
Extract·Extract Powder	
◎ Health food	
◎ Pet food	

■ Production Process



■ Display Name Example

Powder	Low striped bamboo powder, SASA SENANENSIS powder, etc.
Extract	Low striped bamboo extract, SASA SENANENSIS extract, etc.
Extract Powder	Low striped bamboo extract · Maltodextrin, SASA SENANENSIS extract · Maltodextrin, etc.

■ Expected Function

- ◎ Anti-glycation effect
- ◎ Immunostimulatory activity
- ◎ Improvement of the intestinal environment, deodorant action

■ Indication for Cosmetics

	Extract	Extract Powder
Indicated Name	Sasa Senanensis Leaf Extract 45% Water 55%	Sasa Senanensis Leaf Extract 45% Maltodextrin 50% Water 5%
INCI	Sasa Senanensis Leaf Extract Water	Sasa Senanensis Leaf Extract Maltodextrin Water

■ Quality Standard Composition

	Coarse Grain	Powder
Property	Shredded leaf	Green powder, has its original scent
Viable count for bacteria	—	Less than 3,000 pcs/g
Coliform bacteria	—	Negative

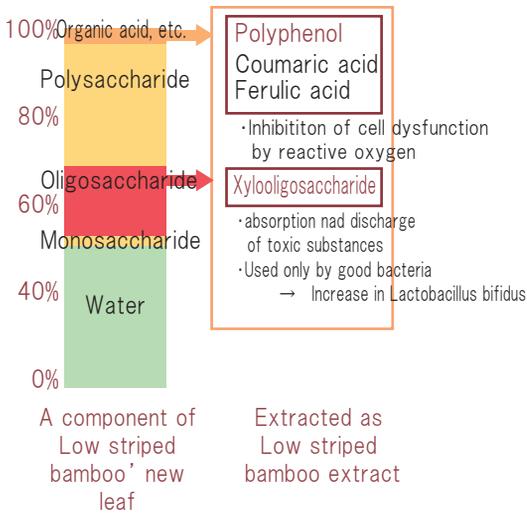
	Extract	Extract Powder
Extraction solvent	Hot water	Hot water
Property	Brown powder, has its original scent	Brown powder
Viable count for bacteria	Less than 3,000 pcs/g	Less than 3,000 pcs/g
Coliform bacteria	Negative	Negative

■ Other

	Coarse Grain	Powder	Extract	Extract Powder
Quantity	15 kg	16 kg	1 kg	1 kg
Shelf Life		1 year	1 year	2.5 years
Storage condition	Cool, dry and dark place	Cool, dry and dark place	Cold storage	Cool and dark place

Company Information

## Composition of Low striped bamboo extract and role in intestinal immunity

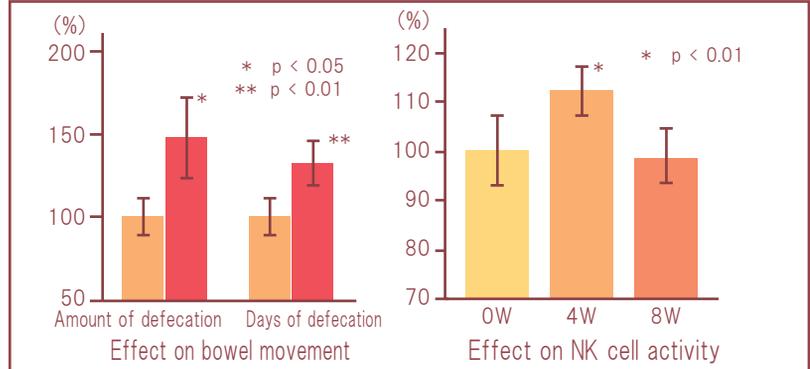


## Improvement of bowel movement and increase of NK cell activity



Subjects ingested 7 tablets each containing 200 mg of Low striped bamboo powder three times a day after meals. The data of before and after 4 weeks of ingestion and 4 weeks after stopping intake is analyzed. As a result of the test, suggested improvement of bowel movement and increase of natural killer cell activity are observed.

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## Extracted by original patented technology

The cells of low striped bamboo are very hard and can not be crushed easily. Since the active ingredient is contained in this hard cell, crushing as much cells as possible leads to an extract with high active ingredient content.

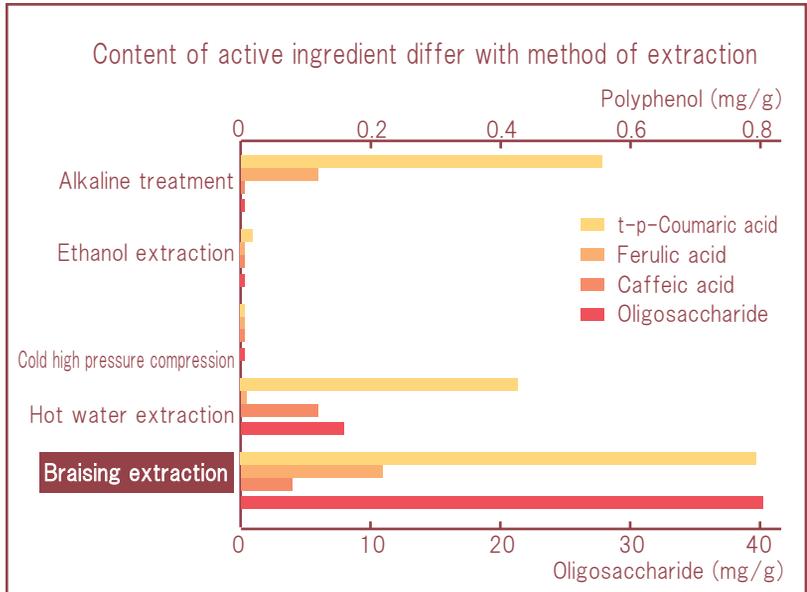
For that reason, by treating the leaves with high temperature and high pressure, we are able to extract a lot of xylooligosaccharides and polyphenols contained.

This patented technology is called "Braising extraction method".

## Anti-glycation effect

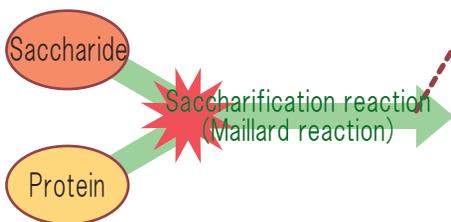
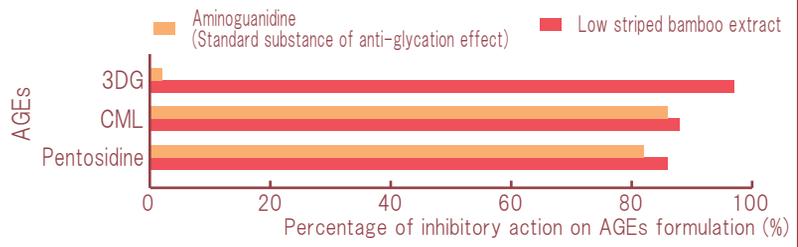


Advanced Glycosylated End products (AGEs) which is formulated by the saccharification reaction, is one of the causes of various symptoms due to complications of age-related diabetes. Currently, lots of saccharification reaction intermediates and the compound of AGEs have been found. After examining the inhibition rate of 3DG, CML and pentosidine which is known as an internal representative of AGEs formulation, it was found that the low striped bamboo extract of Hokkaido has inhibitory effect of these.



## Inhibitory Action on AGEs Formulation

Percentage of inhibitory action on AGEs Formulation (0.5mg/ml in vitro)



## Advanced Glycosylated End products (AGEs)

- 3DG(3-Deoxyglucosone)
- CML(Carboxymethyllysine)
- Pentosidine

- Complication from diabetes
- Arteriosclerosis
- Aging of skin, etc

## Company Information