

Fermented Plant Extract

~75 kinds of ingredients~

Bring out the ingredients' potential



Seasonal Ingredients



Over 3 years of fermentation



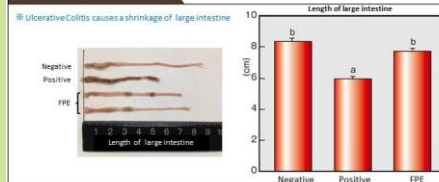
Kibi Highlands' Bounty

Research Results

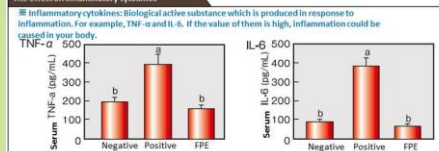
The effect of FPE on Ulcerative Colitis

Method
Give 3 types of feed to BALB/c mice (5 weeks old) and measure the length of the large intestine and the inflammatory cytokines.
① Negative control group: Feed for testing and water
② Positive control group: Feed for testing and DSS water
③ Fermented Plant Extract group: FPE contained feed and DSS water
*Mice take the feed and water freely *DSS: Dextran Sulfate Sodium

The effect of length of the large intestine



The effect on inflammatory cytokines



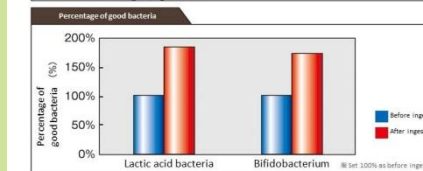
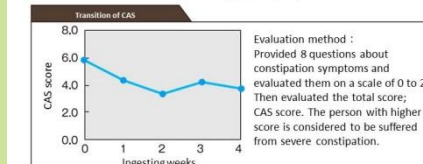
Result and Consideration

In FPE group, the shrinkage of large intestine was prevented and the amount of inflammatory cytokines was suppressed significantly compared to Positive group. From these results, FPE is considered to be effective for preventing ulcerative colitis.

Reprint is prohibited

Improvement of constipation and intestinal environment

Method
8 adult women participated in the research. Participants took 2g of SSN000 a day after breakfast. Before and after ingestion, we analyzed the effect on constipation by CAS-MT and intestinal flora by T-RFLP (gene analysis).



Result and Consideration

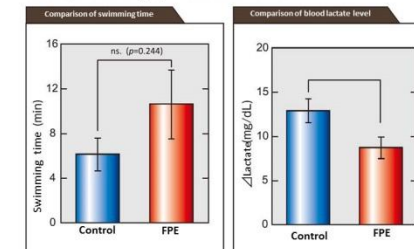
The study showed that the continuous ingestion of Fermented Plant Extract for 4 weeks eased constipation symptoms. The number of good bacteria such as Lactic acid bacteria and Bifidobacterium increased after ingestion. From these, continuous ingestion of Fermented Plant Extract is considered to be effective for improving intestinal environment.

Reprint is prohibited

Verification of the effect of SSN000 on endurance capacity

Method

The research was conducted with ICR male rats. They were given the feed which contained 5% of SSN000 (FPE feed) for 21 days. On the last day of the research, the swimming experiment was conducted.



Result and consideration

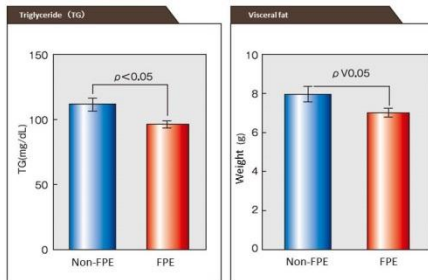
An extension of swimming time and a decrease in blood lactate level were observed in the group of FPE feed. The above results show that the endurance capacity will be improved by continuous ingestion of Fermented Plant Extract.

Reprint is prohibited

Suppression of fat accumulation

Method

After 7 days of preliminary rearing, SD male rats were given the test feed which contained 5% of FPE (SSN000) for 28 days and measured the value of triglyceride (TG) and visceral fat in serum.



Result and consideration

The decrease in triglyceride and visceral fat was observed in the group of test feed. The above results show that the risk of metabolic syndrome will be reduced by continuous ingestion of FPE.

Reprint is prohibited

Supplement Information

FFC 機能性食品開発研究所

Functional Food Creation Research Institute Co., Ltd.

■本社 〒701-1152 岡山県岡山市北区津高1056-7
TEL: 086-214-5888 FAX: 086-214-5889
■URL <http://www.ffc-okayama.com>
■E-mail info@ffc-okayama.com



Specially selected for your great days

Precious Fruits and Vegetables in Kibi Highlands, Okayama



Mallotus



Chocolate vine



Asparagus



Strawberry



Fig



Iyokan citrus fruit



Brown rice



Oligosaccharide



Turmeric



Plum



Raspberry



Kale



Bitter melon



Ginger



Field horsetail



Broadleaf plantain



Rice bran



Persimmon



Pumpkin



Quince



Kiwifruit



Wood ear mushroom



Cabbage



Cucumber



Corn



Asian pear



Carrot



Parsley



Vitamin-na



Loquat leaf



Bell pepper



Japanese seaweed



Kumquat



Silverberry



Bamboo grass



Burdock root



Cacao beans



Japanese mustard spinach



Sea kelp



Shiitake mushroom



Bladder wrack



Blueberry



Broccoli



Prune



Spinach



Tangerine



Japanese ginger



Peach



Perilla



Water dropwort



Celery



Japanese radish



Tomato



Eggplant



Bok choy



Grape



Jute mallow



Crimson glory vine



Red bayberry



Apple



Lingzhi mushroom



Indian lotus



Wakame seaweed



Buerger raspberry



Blackberry



Hen of woods mushroom



Japanese hornwort parsley



Yuzu citrus fruit



Japanese mugwort



Lemon



Soybean



Muscovado sugar



Barley grass



Ginseng



Sea kelp root

- ▶ Fruits (24 kinds)
- ▶ Herbs (6 kinds)
- ▶ Seaweeds (5 kinds)
- ▶ Others (2 kinds)
- ▶ Vegetables (30 kinds)
- ▶ Mushrooms (4 kinds)
- ▶ Grains (4 kinds)

Stay healthy with plants!

How to produce Fermented Plant Extract (FPE)

Select

Point 1

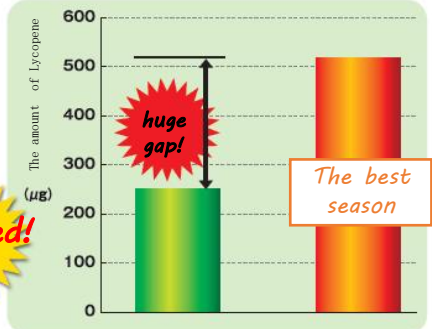
The ingredients in their best season

The ingredients are harvested in their high-nutrient season.



e.g. Tomatoes in summer

The difference of the amount of lycopene



Nutritional value differs by seasons

Doubled!

And more

Purchased from the farmers we work with near our factory to get fresh ingredients.

Fresh! Safe!

Local farmers

Prepare

Point 2

Single-ingredient extraction

To maximize the nutrients....

We care very much about single-ingredient extraction and carefully selected the 75 ingredients.



The ingredients in season will be prepared each time to ensure freshness; the reason we adopt single-ingredient extraction.

Point

Extraction with brown sugar produced in Okinawa, which contains plenty of minerals

Add brown sugar to fresh fruits and vegetables. In 1~2 months, extraction is done.

The process of the extraction



- No water
- Nutritious peel and seeds are also used for extraction (*Peach seeds and persimmon stems are removed)

We selected 75 kinds of ingredients that are thought to be good for your health and grow in the sea, mountains, and fields.

【Vegetables】

Perilla, Pumpkin, Japanese radish, Ginseng, Spinach, Carrot, Kale, Barley grass, Jute mallow, Corn, Tomato, Cucumber, Cabbage, Eggplant, Japanese mustard spinach, Celery, Bell pepper, Bitter melon, Bok choy, Indian lotus, Turmeric, Vitamin-na, Burdock root, Broccoli, Ginger, Parsley, Asparagus, Japanese hornwort parsley, Water dropwort, Japanese ginger

【Fruits】

Prune, Strawberry, Apple, Grape, Peach, Tangerine, Yuzu citrus fruit, Persimmon, Kiwifruit, Kumquat, Lemon, Cacao beans, Blueberry, Chocolate vine, Red bayberry, Asian pear, Plum, Iyokan citrus fruit, Fig, Crimson glory vine, Quince, Raspberry, Silverberry, Blackberry, Buerger raspberry

【Grains】

Muscovado sugar, Soybean, Oligosaccharide, Brown rice, Rice bran

【Mushrooms】

Wood ear mushroom, Shiitake, Hen of the woods mushroom, Lingzhi

【Seaweeds】

Sea kelp, Sea kelp root, Japanese seaweed, Bladder wrack, Wakame seaweed

【Herbs】

Japanese mugwort, Mallotus, Broadleaf plaitain, Bamboo grass, Field horsetail, Loquat leaf

Ferment

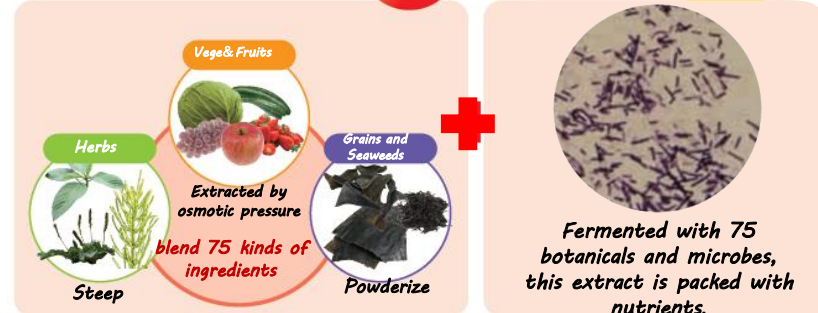
Point 3

Over 3 years of fermentation and maturation

3 ways to process the ingredients

And

Fermentation enhanced by "microorganisms"



Carefully fermented and aged for 3 years without temperature control

Ferment slowly without water and additives



The room for fermentation

• The change in fermentation



Completed!!

Final inspection

Through various inspections, we confirm that FPE meets the strict quality standards.



Microbial test



Physicochemical test



Types of Fermented Plant Extract

Paste type



Our classic 100% fermented plant extract paste.

Fermented Plant Extract	
SSN000	
Ingredients	75 kinds
Fermentation period	3.5 years
Additives	No
Recommend to use for	Bottle Sachet Drink Jelly Pill

SSN000 with fermented ginger extract.
Brings a rich ginger flavor to the product.

Fermented Ginger Extract	
Ingredients	75 kinds
Fermentation period	3.5 years
Additives	No
Recommend to use for	Sachet Drink Jelly

Liquid type



Our standard liquid widely used in beauty and wellness drinks. Concentrated type with an alcohol content of 0.9% or less.

Fermented Plant Extract	
LPN000	
Ingredients	18 kinds
Fermentation period	1 year
Additives	No
Recommend to use for	Drink Jelly

The liquid with 75 kinds of ingredients.

Fermented Plant Extract	
LCS005	
Ingredients	75 kinds
Fermentation period	3 years
Additives	No
Recommend to use for	Drink Jelly

Powder type



Freeze-dried
Good for tablet, capsule, and granule.

Fermented Plant Extract	
FSN000	
Ingredients	75 kinds
Fermentation period	3.5 years
Process	Freeze dry
Additives	Cyclodextrin
Recommend to use for	Capsule Granule Tablet, Candy

Spray-dried
Suitable for a wide range of product forms, including a smoothie type.

Fermented Plant Extract	
FCS010	
Ingredients	75 kinds
Fermentation period	3.5 years
Process	Spray dry
Additives	No
Recommend to use for	Capsule Granule Tablet, Candy

Product forms

OEM and private label services are available.

Paste



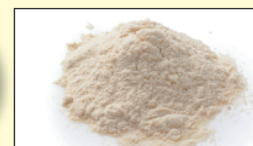
Can be supplied in sachets and bottles. Taste can be adjusted.

Liquid



Mainly for drinks. Taste and concentration can be adjusted.

Powder



Available in freeze-dried and spray-dried types.

Ball



Candy-like coated balls.

Tablet



Available in various sizes and shapes.

Soft capsule



Easy to carry and swallow. Available in plant-based or fish gelatin capsules.

Hard capsule



Easy to carry and swallow. Available in plant-based or animal-based capsules.