



































































































Ver. 10 of Revised Content

New Products

• STRAWBERRY GUAVA EXTRACT (FemBerry™) FemBerry™ P.54

■ Halal Certificate (New addition)

- · CITRUS UNSHIU EXTRACT P
- · CITRUS UNSHIU EXTRACT PC
- · CITRUS UNSHIU EXTRACT LC
- COPRINO™ EXTRACT P0.5
- COPRINO™ EXTRACT-PC0.5
- · SAKURA EXTRACT LC
- · SAKURA SYRUP
- · Safleep® P
- FemBerry TM (STRAWBERRY GUAVA EXTRACT) -P
- ResoVineTM (VINE TEA EXTRACT) -LC
- · LycoLift™ (TOMATO SEED EXTRACT) -LC
- PASSIONFLOWER EXTRACT P
- PASSIONFLOWER EXTRACT PC
- PASSIONFLOWER EXTRACT WSP
- PASSIONFLOWER EXTRACT WSPC

■ New Trademark (Including pending applications):

- · SICHUAN PEPPER OIL (SalivaMoist™) SalivaMoist™
- VINE TEA EXTRACT (ResoVineTM)



· TOMATO SEED EXTRACT (LycoLift™) LycoLift™

• MOUNTAIN CAVIAR EXTRACT (VegCaviarTM) VegCaviar.



- ■New additional items:
 - None
- ■Stopped sales products:
 - None



Revised date: January 19, 2024

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How to Use This Catalog

Food with function

"Accepted" is indicated for ingredients of which an application has been accepted. "Submitted" is indicated for ingredients undergoing the process of application. For ingredients with "Accepted" indicated, details such as their health claims and involved components are described on pages 44 and 45.

Recommended

Recommended intake is described assuming that products whose name include -P (powder) is ingested. Ingestion dose may differ depending on the grade of products. For details, please contact sales personnel.

KIKU FLOWER EXTRACT

Application for food with function claims accepted in Japan

Recommended dosage

(Released in May 2014)

100 mg/day (P)

● Japanese patent No. 6452014 (Fibronectin expression promoting material)

Anti-gout



(Double-blind comparative tudy between parallel groups) It has been confirmed to possess uric acid lowering activity

- •Inhibits enzyme which synthesizes uric acid (ranthine oxidase) (in vitro)
- Improves symptoms of gout (in vivo)
- ·Suppresses uric acid production (in vitro)
- •Improves quality of sleep (in vivo)
- ·Anti-wrinkle and skin beautifying effect (in vivo

[Origin of raw material]

Flower buds or flowers of chrysanthemum

[Standard component]

Luteolin

[Safety test]

(Chrysanthemum flower extract)

- ·Single-dose test
- LD50: 2,000 mg/kg or more
- ·Repeated dose (28 days) test
- ·Ames test
- Five times (500 mg) dose intake test on human

-P (powder)🕦

-WSP (water-soluble powder)

Packing type

The basic packing is described below.

If any irregular packing is used, it is described in

· Powder: 1 kg, 5 kg Liquid and oil: 16 kg

Halal authorized ingredient

This mark is the Halal certification mark. This certification mark is added to information on Halal authorized ingredients.

Product grade

Basically,-P(powder) and-WSP(water-soluble powder) are available.

When only the -P (powder) grade is available,-P powder) is highly water-soluble.

Description of functionality

Concerning human clinical trials, Oryza's original data is shown in red and data quoted from a published report is shown in blue.

PRODUCTS from RICE (Oryza sativa)

		Life	e style-	-relate	d disea	ıses	Al Inf	lergie lammat	es•		Beauty	T .
Appeal poi	nt	Antihypertensive	Prevention of Hyperlipemia Arteriosclerosis	Anti-diabetic	Anti-obesity	Alcohol metabolism Hepatoprotective	Improvement of Hay Fever and atopic dermatitis	Anti-arthritic Pain relief	Anti-inflammation	Whitening effect	Moisturizing effect	Cell activation Improvement of metabolism
FERMENTED RICE GERM EXTRACT	P. 25											
FERULIC ACID	P. 25	0		0						0	0	
GAMMA ORYZANOL ORYZA GAMMAX® (USA)	P. 27		0	0	0		0		0	UV absorption (down) Tyrosinase activitity	0	0
OCTACOSANOL	P. 38				(up) Lipid metabolism	0						
ORYZA CERAMIDE TM	P. 39						Decrease itching Inhibition of degranulation			(down) Melanin production and tyrosinase activity	0	(up) Dermal fibroblast growth
ORYZA GABA TM	P. 40	0	0		(down) Blood TG	(up) Alcohol metabolism						
ORYZA PEPTIDE	P. 40	ACE inhibitor			(up)Lipid metabolism					(down) Melanin production	(down) Ceramidase and hyaluronidase gene expression (up) Collagen production	
ORYZA POLYAMINE TM	P. 41		0		0		0		0			0
ORYZA PROTEIN TM	P. 41		0		(up)Lipid metabolism							
ORYZA STEROL	P. 42		0								0	
ORYZA TOCOTRIENOL TM	P. 42		0		(down) Blood TG		0			Anti- pigmentation	(up) hyaluronic acid production	(up) Dermal fibroblast growth
PURPLE RICE EXTRACT	P. 46		0	(down) α - glucosidase, aldose reductase activities	(down) Sugar absorption				0	(down) Melanin production and tyrosinase activity	(down)Elastase, hyaluronidase, collagenase activities	
RED RICE EXTRACT	P. 48		0								(down) Collagenase expression	
RICE BRAN OIL	P. 73		0		0					0	0	
DEFATTED RICE BRAN [*]	P. 74				0							

 \Re ORYZA DRIM, ORYZA GERM-DLP, -DLS

 \bigcirc : literature citation Narration: data obtained by Oryza R&D group. (The Red:New datas)

	Bea	uty		Anti-aging Oph Frame A In In the American Ameri							Others	5	
Anti-wrinkle	Anti-acne	Anti-glycation	Others(hair, nail)	Prevention of Ophthalmopathy	Improvement of brain function	Anti-cancer	Nutritional fortification Immunostimulating effect Improvement of libido	Anti-oxidative effect	For feeling of cold Swelling Improvement of peripheral circulation	Improvement of dysautonomia/ post menopausal syndrome	Anti-stress Relax Anti-fatigue Sleep	Antibacterial effect Deodorizing effect	Others
						NK cells prolifera tion	(up)Phagocyotic capacity of macrophages	SOD-like and DPPH radical scavenging acbilities					
					0	0		0					
								Suppression of oil peroxidation	0	0	0		
					0		0				0		(up) Endurance
0						(up)Apoptosis /prevention of colon cancer	Anti- influenza effect(BSG)	0		\circ			
					0	Prevention of colon cancer			0	\circ	0	0	
								SOD-like activity					Liver- protective effect
		0					Autophagy	0					Effect of radiological protection
			(up)Hair growth Effect of hair cuticle repair										(down) TG
						0							Prevention of BPH
(UP) Hyaluronic acid production						Prevention of colon cancer and breast cancer		0	0				Anti- fatigue
			Hair dye	Inhibition of retinal disorders/Retinal angiogenesis		0		SOD-like and DPPH radical scavenging acbilities					(down) Vitamin C oxidation
								SOD-like and DPPH radical scavenging acbilities					(down) TG
			Skin cell activation					0		0			
						0							Relief constipation

		Life	e style-	-relate	d disea	ises		lergie lammat]	Beauty	Į.
Appeal poir	nt	Antihypertensive	Prevention of Hyperlipemia Arteriosclerosis	Anti-diabetic	Anti-obesity	Alcohol metabolism Hepatoprotective	Improvement of Hay Fever and atopic dermatitis	Anti-arthritic Pain relief	Anti-inflammation	Whitening effect	Moisturizing effect	Cell activation Improvement of metabolism
AGUAJE EXTRACT	P. 16		0									
ALPHA-LIPOIC ACID	P. 16			0	(down) Fat accumulation, appetite (up) Muscle strengthening					(down) Melanin production	0	(up) Dermal fibroblast growth
ASTAXANTHIN	P. 17		0						0		0	
BIRD'S NEST EXTRACT	P. 18								0		Moisturizing effect	(up) Dermal keratinocyte / fibroblast growth
BLACK GINGER EXTRACT Staminus® (USA)	P. 19	Blood pressure -lowering effect	0	0	0		0	0	0			
BROCCOLI SPROUT EXTRACT	P. 20									(down) Melanin production/ Tyrosinase activity		
BUCKWHEAT LEAF EXTRACT	P. 20	0	0	0	(up) Lipid metabolism							
CACAO EXTRACT	P. 21	0	0		(down) Fat accumulation, appetite (up) Lipid-metabolism							
CHINESE CHIVE SEED EXTRACT	P. 21					Suppression of lipid peroxidation				(down) Melanin production		
CISTANCHE TUBULOSA EXTRACT	P. 22	0	Suppression of cholesterol		(up) Lipid metabolism	0				(down) Tyrosinase activity	(down) Elastase, hyaluronidase activities	
CITRUS UNSHIU EXTRACT	P. 22		0		0			0		(down) Melanin production/ Tyrosinase activity	0	(up) Dermal fibroblast growth
COFFEE BEAN EXTRACT	P. 23	0		(down) α –glucosidase activities and sugar absorption	(down)Fat absorption (up)Lipolysis, fat decemposition							
COPRINO TM EXTRACT	P. 23								(down) IL-6 production	(down) Melanin production/ Tyrosinase activity		(up) Hyaluronan synthase
EVENING PRIMROSE EXTRACT	P. 24		0	(down) α-glucosidase, α-amylase, aldose reductase activities	(down) Sugar absorption					(down) Tyrosinase activity	0	
EVENING PRIMROSE OIL	P. 24		(up) Cholesterol ester production	0	0		Implrovement of GLA deficiency				0	
FUCOXANTHIN	P. 26			0	0					(down) Tyrosinase activity/ Melanogenesis related genes expressions	(down) Elastase, collagenase, hyaluronidase activities	

○: literature citation Narration: data obtained by Oryza R&D group. (The Red:New datas)

	Bea	uty			An	ti-agi	ing				Others	5	
Anti-wrinkle	Anti-acne	Anti-glycation	Others(hair, nail)	Prevention of Ophthalmopathy	Improvement of brain function	Anti-cancer	Nutritional fortification Immunostimulating effect Improvement of libido	Anti-oxidative effect	For feeling of cold Swelling Improvement of peripheral circulation	Improvement of dysautonomia/ post menopausal syndrome	Anti-stress Relax Anti-fatigue Sleep	Antibacterial effect Deodorizing effect	Others
								0	0				Female hormone like activity, Anti-androgen effect
			(up) Skin turnover	0				<i>In vivo</i> antioxidant					
0				0	(down) Generation of ROS in brain cells			0				Anti- <i>H.pylori</i>	
(up) Skin elasticity, Dermal collagen density			(up) Skin tight junction		0		0				0		
			(up) Hair growth HGF,IGF-1, VEGF mRNA		Inhibition of phosphodiest erase 2 activity	0	0	SOD-like and DPPH radical scavenging acbilities	Promotion of blood peripheral circulation Improvement of capillary blood vessel shape			0	Improvement of gout/Prevention of BPH/ Prevention of hair loss
		0		0		(up) Phase II enzymes		<i>In vivo</i> antioxidant				Anti-H.pylori	
								SOD-like and DPPH radical scavenging acbilities	(up) Peripheral circulation				
								SOD-like and DPPH radical scavenging acbilities	0				
							(up) Testosterone secretion/ Immunity	0			Improvement of physical and mental fatigue		(up) Endurance Detoxification
Anti-photo aging			(up) Hair growth	(up) Human neuroblast growth		(up) Testosterone secretion		SOD-like and DPPH radical scavenging acbilities	Cerebral or myocardial infarction	0	0		(up) Endurance
						0		SOD-like and DPPH radical scavenging acbilities					Inhibition of osteoporosis
				0		Prevention of colon cancer		SOD-like and DPPH radical scavenging acbilities					
Anti-photo aging													
						(up) Apoptosis		SOD-like and DPPH radical scavenging acbilities		0		Inhibition of H. pylori fixation and urease activities Deodorization	
								0		Implovement of GLA deficiency			
(up) Collagen production	(down) Lipase activity	(down) AGE formation				Colorectal cancer		SOD-like and DPPH radical scavenging acbilities					Inhibition of osteoporosis

		Life	e style-	-relate	d disea	ıses	Al Inf	lergie lammat	es• ion		Beauty	T
Appeal point Product name	nt	Antihypertensive	Prevention of Hyperlipemia Arteriosclerosis	Anti-diabetic	Anti-obesity	Alcohol metabolism Hepatoprotective	Improvement of Hay Fever and atopic dermatitis	Anti-arthritic Pain relief	Anti-inflammation	Whitening effect	Moisturizing effect	Cell activation Improvement of metabolism
FucoRex TM	P. 26			0	Inhibition of fat accumulation and gain weight					(down) Tyrosinase activity Melanogenesis related genes expresiion	(down) Elastese, collagenase, hyaluronidase activities	
JAPANESE BUTTERBUR EXTRACT	P. 28	Vaso dilatation					(down) Leukotriene, histamine release and TNF-α production					
KIKU FLOWER EXTRACT	P. 29		0		0	0	Improvement of itching in the eyes	Anti-gout. Inhibition of XOD,Uric acid excretive effect	0	0		
KIWI SEED EXTRACT	P. 30								(down) PG- production	(down) Melanin production /Tyrosinase activity	Clinical test in human	
KRILL OIL (ISADA OIL)	P. 31	0	0		Inhibition of fat accumulation and gain weight (PPAR activation)			0				
KUZU LACTIC ACID BACTERIA(ImmnoRise Lactic Acid Bacteria TM)	P. 32											
KUZU LACTIC ACID BACTERIA (SkinBarrier Lactic Acid Bacteria TM)	P. 32										(up)Collage n,improve TEWL	
LINGONBERRY EXTRACT	P. 33	0								(down) Melanin production/ Tyrosinase activity		
LITCHI SEED EXTRACT	P. 33			(down) Aldose reductase activities and elevation of blood sugar	(up) Lipid metabolism					(down) Melanin production/ Tyrosinase activity	(down)Hyaluro nidase activity (up)Collagen production	(up) Dermal fibroblast growth
LUTEIN	P. 34											
MAQUI BERRY EXTRACT MaquiBright TM	P. 35											
MAQUI BERRY EXTRACT Delphinol TM	P. 36		0	0					0	(down) Melanin production		
MOUNTAIN CAVIAR EXTRACT	P. 37				Lower Blood Sugar Level After Meals	0						
PASSIONFLOWER EXTRACT	P. 43			0								
PERILLA SEED EXTRACT	P. 44						(down) 5 and 12- lipoxygenase/ hisitamine release		0		0	
PERILLA SEED OIL	P. 44 - P. 45		0		0		(down) Leukotriene and histamine prodution				0	

 \bigcirc : literature citation Narration: data obtained by Oryza R&D group. (The Red:New datas)

	Bea	uty			Anti-aging						Others	5	
Anti-wrinkle	Anti-acne	Anti-glycation	Others(hair, nail)	Prevention of Ophthalmopathy	Improvement of brain function	Anti-cancer	Nutritional fortification Immunostimulating effect Improvement of libido	Anti-oxidative effect	For feeling of cold Swelling Improvement of peripheral circulation	Improvement of dysautonomia/ post menopausal syndrome	Anti-stress Relax Anti-fatigue Sleep	Antibacterial effect Deodorizing effect	Others
(up) Collagen production	(down) Lipase activity	(down) AGEs formation				0		SOD-like and DPPH radical scavenging abilities					Inhibition of osteoporosis
				0				\circ					
Expression of Fillagrin, Type IV collagen		0		0	0	0		0	0			0	Anti-oxidation, Cardioprotective, Neuroprotective
(up) Dermal fibroblast growth	(down) 5α-reductase /Lipase activities		(up) Dermal fibroblast growth /Anti-under eye darkness					SOD-like and DPPH radical scavenging abilities					
					\circ			\circ	0				
							0						
							(UP)saliva IgA						
		0						0	Thermography				Prevention of urinary tract infection
(down) Elastase, collagenase activities						(up) Apoptosis		SOD -like and DPPH radical scavenging abilities <i>In vivo</i> antioxidant		\bigcirc			
				Prevention of AMD		0		\circ					
				Anti-dry eye effect Inhibition of retinal photo-damage				0					
Anti-photo aging		Suppresses AGEs production, AGEs degradative effec	(up)Hair growth,Cosme tical effect					0					Inhibition of osteoporosis
							0				Improvement of circadian rhythm, Improvement of quality of sleep		Enhance activity in daytime
								SOD -like activity		0		Anti-cariogenic bacterium Anti-periodontal bacterium Deodorization	

		Lif	e style-	-relate	d disea	ises		lergie lammat			Beauty	I
Appeal point Product name	nt	Antihypertensive	Prevention of Hyperlipemia Arteriosclerosis	Anti-diabetic	Anti-obesity	Alcohol metabolism Hepatoprotective	Improvement of Hay Fever and atopic dermatitis	Anti-arthritic Pain relief	Anti-inflammation	Whitening effect	Moisturizing effect	Cell activation Improvement of metabolism
POLYAMINE (from wheat germ)	P. 45		0		0		0		0			0
PSORALEA CORYLIFOLIA FRUIT EXTRACT	P. 46								0		(down) hyaluronidase activities	
PURPLE TEA EXTRACT Alluvia [®] (USA)	P. 47				(down)Fat absorption and accumulation (up)Lipolysis					(down) Tyrosinase activity	Moisturizing effect	(up) Dermal collagen density
PURPLE TEA EXTRACT PurepleForce [™] (USA)	P. 47											
RED GINGER EXTRACT	P. 48			0		0		anti- arthropathia pain relief	0			
RESVERATROL	P. 49	\bigcirc			Suppression of adipocyte differentiation		0			(down) Melanin production	(down) Elastase, collagenase,hyalur onidase activities	
SAFFRON EXTRACT Safleep™	P. 50											
SAKURA EXTRACT Florabella® (USA)	P. 51			aldose reductase activities					(down) NO production	(down) Melanin production/ Tyrosinase activity		(up) Dermal fibroblast growth/ Collagen lattice production
SEABERRY EXTRACT	P. 52										Inhibition of dryness stimulation	0
SEABERRY OIL	P. 52		0	0	0					\circ		
SICHUAN PEPPER OIL	P. 53											
NEW!STRAWBERRY GUAVA EXTRACT FemBerry™	P. 55										Skin moisture TEWL improvement	
STRAWBERRY SEED EXTRACT	P. 54			(up)GLUT4 and insulin receptor gene expressions	(up)Lipid metabolism/ Lipolysis		Improvement of epidermal hyperplasia Decrease of eosinophils & mast cells			(down)Tyrosinase and its related protein gene expressions	(up)Ceramide synthase and aquaporin gene expressions	
TOMATO SEED EXTRACTL LycoLift™	P. 56		0						Suppression of IgE secretion Improvement of cytokine balance		Improvement of TEWL	(up)Metabolism of extracellular matrix in skin
VINE TEA EXTRACT ResoVine™	P. 56				Suppresses fat absorption&fat accumulation, Promotes fat metabolism	Protects liver						
WALNUT POLYPHENOL	P. 57	0	0	0	\bigcirc	Suppression of fatty liver Hepatoprotection				(down) Melanin production		

○: literature citation Narration: data obtained by Oryza R&D group. (The Red:New datas)

	Bea	uty			An-	ti-agi	ing				Other:	S	
Anti-wrinkle	Anti-acne	Anti-glycation	Others(hair, nail)	Prevention of Ophthalmopathy	Improvement of brain function	Anti-cancer	Nutritional fortification Immunostimulating effect Improvement of libido	Anti-oxidative effect	For feeling of cold Swelling Improvement of peripheral circulation	Improvement of dysautonomia/ post menopausal syndrome	Anti-stress Relax Anti-fatigue Sleep	Antibacterial effect Deodorizing effect	Others
		0	(up) Keratin production				Autophagy	0					Protection from radiation
Promote protein expression of Fibrin 4 and Laminin 5													
			Anti-aging of skin,Suppresses AGEs production, AGEs degradative effect					SOD -like and DPPH radical scavenging abilities <i>In vivo</i> antioxidant					
											Promotes NO production in endothelial cell,Activate AMPK in muscle cells		Beneficial effect for exercise
0					(down) Generation of ROS in brain cells				0				
	Anti-acne					0	0	SOD-like and DPPH radical scavenging abilities	Cardiopathy	0			Protection of nerve cell
					0						0	0	hepato- protective
(up) Collagen lattice production		(down)AGE formation/ apoptosis,AGEs degradative effect	Hair care	Inhibition of retinal angiogenesis				0					
			Inhibition of skin irritation from air pollutants					Elimination of DPPH free radical					Improvement of BPH and urinary disturbance Inhibition of overactive bladder,
		Maintain skin elasticity,improve glycation stress											Improvement of benign prostatic hyperplasia
												Inhibition of S.mutans and P.gingivalis	
									Platelet aggregation inhibition Promotion of body temperature recovery Swelling improvement Blood flow improvement				
(up) Hyaluronan synthase	(down) Sebum secretion		(up)HSP gene expression barrier function (filaggrin and involucrin expression					SOD-like and DPPH radical scavenging abilities	and o carett				
(up)Collagen and elastin production Maintenance of extracellular matrix in skin								0					
				0		0		0					Inhibition of osteoporosis

		Life	e style-	-relate	d disea	ıses		lergie lammat			Beauty	7
Appeal poir	nt	Antihypertensive	Prevention of Hyperlipemia Arteriosclerosis	Anti-diabetic	Anti-obesity	Alcohol metabolism Hepatoprotective	Improvement of Hay Fever and atopic dermatitis	Anti-arthritic Pain relief	Anti-inflammation	Whitening effect	Moisturizing effect	Cell activation Improvement of metabolism
WATERSHIELD EXTRACT	P. 58		(down) Cholesterol/ Triglyceride	(down) Elevation of blood sugar	(up)Lipid metabolism/ Adiponectin secretion (down)Fat accumulation/ Cellulite						(down) Elastase, collagenase, hyaluronidase activities	(up) Dermal fibroblast growth
WHITE JELLY FUNGUS EXTRACT	P. 59		0	(up) Glycolytic activity	(down)Fat absorption and accumulation/App etite						Moisturizing effect	
YUZU SEED EXTRACT	P. 60		Hypotrigl yceridemic Suppression of cholesterol	(up) Sugar metabolism	(up) Lipid metabolism					(down) Melanin production	0	(up) Dermal fibroblast growth

○: literature citation

Narration: data obtained by Oryza R&D group.(The Red:New datas)

	Bea	uty			An ⁻	ti-agi	ing			(Others	S	
Anti-wrinkle	Anti-acne	Anti-glycation	Others(hair, nail)	Prevention of Ophthalmopathy	Improvement of brain function	Anti-cancer	Nutritional fortification Immunostimulating effect Improvement of libido	Anti-oxidative effect	For feeling of cold Swelling Improvement of peripheral circulation	Improvement of dysautonomia/ post menopausal syndrome	Anti-stress Relax Anti-fatigue Sleep	Antibacterial effect Deodorizing effect	Others
(up) Collagen/ Hyaluronan synthase													Intestinal motility
					0			SOD-like and DPPH radical scavenging abilities					Relief enhance constipation Intestinal motility Protection of gastric mucosa
			(up) Skin turnover			0			Thermography		Anti-stress		



<To relieve PMS and enhance the beauty of the bust! from fascinating Amazon fruit>

AGUAJE EXTRACT

(Released in May 2018)

Recommended dosage

100 mg/day (oil)

Japanese Patent No. 6742537 (Estrogen activity regulation and indefinite complaints ameliorative agent)



- -Extract (oil)
- -P (powder)
- -L (emulsion)
- -Powder

(post-ordered production)

•Relieves PMS and improves bust size

(Double-blind comparative study between para llel groups)

It has been confirmed to have effects of reducing complaints of general malaise during menstruation, increase the bust size of slim women, and prevent the bust from sagging due to aging (enhance the beauty of the bust).

·Improves women's QOL

(Open test)

Significantly reduced body pains, increased vitality, and improved QOL in both social and mental aspects.

- Estrogenic effect (in vitro)
- Anti-estrogenic effect (in vitro)
- •Anti-androgen effect(in vitro)

[Origin of raw material]

Fruits of aguaje

[Standard component]

DMM (Dihydroxy-Methoxy-Methylflavan)

[Safety test]

(Aguaje extract)

·Single-dose test

LD50: 2,000 mg/kg or more

· Ames test

<Improved water solubility with no residual solvent! High purity alpha lipoic acid>

ALPHA-LIPOIC ACID

(Released in October 2004)

Recommended dosage

50 to 100 mg/day (P)

Japanese Patent No. 4849792 (Composition for beauty enhancement)



- -P (powder)
- -P80 (powder)
- -WSP7(water-soluble Powder)
- -L1 (emulsion)

·Weight management effect

(Open test)

It has been confirmed to have effects of improving the obesity index, including body fat ratio, impedance, fat amount, hip size, and blood sugar and creatinine level.

·Increases muscle weight

(in vitro, in vivo)

- Suppresses fat accumulation (in vitro)
- ·Suppresses pigmentation

(in vivo)

- Antioxidative action (in vitro)
- ·Prevents weight increase

(in vivo)

- Promotes lipid metabolism (in vitro)
- Promotes skin turnover (in vitro)

[Origin of raw material]

Alpha lipoic acid

[Standard component]

Alpha lipoic acid

[Safety test]

(-P)

- •Single-dose test (male mice)
- LD50: 405 mg/kg or more
- ·Ames test

(-L1)

·Single-dose test

LD50: 2,000 mg/kg or more



<An amazing anti-oxidative power from algae>

ASTAXANTHIN

(Released in May 2006)

• Prevents eye fatigue

(Double-blind comparative study between parallel groups, from literature)

It has been confirmed to have improving

It has been confirmed to have improving effect on focus adjustment function and reducing subjective symptoms related to eye fatigue.

 Takes care of wrinkles and improves skin elasticity

(Single-blind study between parallel groups, from literature)

It is assumed that the effects are provided by the action to eliminate singlet oxygen species caused by UV-rays.

Improves brain functions

(in vivo

- Antioxidative effect (in vivo)
- •Suppresses arteriosclerosis

(in vitro)

•Anti-inflammatory effect (in vivo)

Recommended dosage

400 to 600 mg/day (P1)

[Origin of raw material]

Haematococcus pluvialis
[Standard component]

ASTAXANTHIN

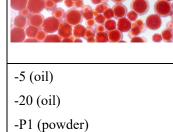
[Safety test]

(-20 oil)

·Single-dose test

LD50: 2,000 mg/kg or more

•No ethoxyquin was detected (Detection limit 0.05 mg/kg)



-LS1(emulsion)



<Promote natural immunity and beautify the skin! Swiftlet nest containing natural EGF>

BIRD'S NEST EXTRACT Recommended dosage (Released in May 2013) 70 mg/day (P) • Japanese Patent No. 6358692 (Tight junctions formation promoter) •Regenerates skin (Open study) [Origin of raw material] It reduced moisture evaporation from the Swiftlet nest skin and reduced peeling of dead skin cells off. [Standard component] It also exhibited a tendency to Sialic acid increase skin elasticity and dermal collagen density. [Safety test] •Increases skin cell growth (in vitro) (Bird's nest extract) •Wound healing activity (in vitro) ·Single-dose test ·Strengthens tight junctions of the skin LD50: 2,000 mg/kg or more (in vitro) -P (water-soluble powder) •Anti-flu effect (in vitro) · Ames test



<Improves motor functions in people across many generations!</p> A universal extract from the south an country! >

BLACK GINGER EXTRACT

Application for food with function claims accepted in Japan

Recommended dosage

100 mg/day (P)

(Released in May 2012)

Staminus® (USA)

- Japanese Patent No. 6086953 (AMPK activator)
- Japanese Patent No. 67517009 (Energy activator for muscle cells)
- Japanese Patent No. 6954960(An inhibitor of TNF-α and IL-6 production and which could be used in muscle inflammation)



-P (powder) -WSP



(water-soluble powder)

•Effect of improving motor functions and muscle endurance capacity

(Double-blind comparative study between parallel groups)

It has been confirmed to have improving effects of motor functions such as grip strength, leg strength, balance, and endurance.

 Reduces the feeling of coldness and swelling

(Open study)

It has been confirmed to recover the normal shape of blood capillaries vessels and improve peripheral blood flow. Also, it has been confirmed to maintain blood pressure at a normal level.

- Activate AMPK in muscle cells (in vitro)
- •Anti-obesity and anti-diabetec activity (in vivo)
- Promotes nitric oxide production in vascular endothelial cells (in vitro)

[Origin of raw material]

Rhizonme of black ginger

[Standard component]

Total polymethoxyflavones 5,7-Dimethoxyflavone

[Safety test]

(Black ginger extract)

- •Single-dose test
- LD50: 2,000 mg/kg or more
- •28 days chronic toxicity test
- Acute toxicity test (6-month continuous administration)
- Five times dose(500mg) intake test on human
- · Ames test



<Super food with excellent to ability activate detoxification enzymes and anti-oxidative effect! >

BROCCOLI SPROUT EXTRACT

Application for food with function claims accepted in Japan

Recommended dosage

(Released in September 2001)

185 mg/day (EX)

- Japanese Patent No. 5571280 (Sebum production promoter)
- Japanese Patent No. 6902392 (Carbonylation inhibitor)



• In vivo antioxidative action

(Double-blind comparative study between parallel groups)

Three-week ingestion of the extract exhibited an effect of suppressing DNA damage caused by active oxygen and lipids oxidation in the body.

- Anti-carbonylation effect (in vitro)
- ·Suppresses colorectal

cancer (in vivo)

·Suppresses breast cancer

(in vivo)

- •Anti-H. pylori activity (in vivo)
- Inhibits tyrosinase activity (in vitro)
- Suppresses melanin production (in vitro)

[Standard component]

Sulforaphane

[Safety test]

(Broccoli sprout extract)

[Origin of raw material]

Broccoli seeds(only -EX)

Germinated broccoli

· Single-dose test

LD50: 5,000 mg/kg or more

(Broccoli sprout extract-EX)

· Ames test

-EXTRACT (water-soluble powder)
-EXTRACT EX (water-soluble powder)

-PS1 👺

(water-soluble powder)

-BROCCOLI SPROUT POWDER

-BROCCOLI POWDER

Strengthen blood vessels and improve blood circulation with the power of Rutin! Effective on blood circulation cold condition and stiff shoulders! >

BUCKWHEAT LEAF EXTRACT

(Released in May 2003)

Recommended dosage

240 to 600 mg/day (P)



-P (powder)

-WSP (water-soluble powder)

Improves blood circulation

(Open test)

It has been confirmed to improve peripheral blood circulation and promote the recovery of skin temperature. As a result of the measurement of blood components after ingestion, the cyclic AMP (c-AMP) concentration significantly increased. This suggests potential actions similar to those of some phosphodiesterase inhibitors that to improve renal blood flow (action to dilate peripheral blood vessels).

- Antioxidative action (in vitro)
- Diabetes prevention (in vivo)

[Origin of raw material]

Leaf of buckwheat or *Fagopyrum tataricum*, Polygonaceae

[Standard component]

Rutin

[Safety test]

P)

·Single-dose test

LD50: 5,000 mg/kg or more



<A weight loss ingredient developed by focusing on fat decomposition and burning>

CACAO EXTRACT

(Released in April 2005)

Recommended dosage

100 to 250 mg/day (P)



·Suppresses fat accumulation

(Open test)

Four week intake exhibited a tendency to reduce weight, body fat percentage, BMI, amount of fat, obesity level, as well as waist and hip sizes compared to baseline. It exhibited significant effects to reduce body weight, obesity level, and BMI.

- Prevents body weight gain (in vivo)
- •Inhibits fat accumulation (in vitro)
- ·Promotes fat burning

(in vitro)

•Interferes with fat absorption

• Antioxidative effect (in vitro)

[Origin of raw material]

Cacao seed

[Standard component]

Theobromine, polyphenol

[Safety test]

(-P)

·Single-dose test

LD50: 2,000 mg/kg or more

- •Repeated dose (28 days) test
- ·Chromosomal aberration test

-P (powder)



(water-soluble powder)

<A major stamina-enhancing ingredient!</p>

For revitalizing, anti-fatigue, and anti-stress measures! >

CHINESE CHIVE SEED EXTRACT

(Released in September 2006)

Recommended dosage

100 mg/day (P, WSP)

• Japanese Patent No. 4925761 (Immunostimulator) (Expiration of validity period)



-P (powder)

-WSP (water-soluble powder)

-Oil

(post-ordered production)

· Anti-fatigue

(Open study)

Slight decrease in lactic acid, a slight rise in noradrenaline, and a significant decrease in cortisol have been observed.

- •Enhances sexual capacity (in vivo)
- Reduces mental fatigue (in vivo)
- •Reduces physical fatigue (in vivo)
- •Anti-aging (in vivo)
- Boosts immunity

(in vivo)

• Whitening effect (in vitro)

[Origin of raw material]

Allium Tuberosum seed

[Standard component]

S-allyl-L-cysteine

[Safety test]

(Allium Tuberosum seed extract)

·Single-dose test

LD50: 2,000 mg/kg or more

· Ames test



<Anti-aging for the entire body!

Cistanche tubulosa, a desert plant with a strong life force>

CISTANCHE TUBULOSA EXTRACT

(Released in May 2007)

Recommended dosage

100 to 400 mg/day



-P25 (water-soluble powder)

Improves brain functions

(Double-blind comparative study between parallel groups)

It has been confirmed to have an effect on vascular dementia.

- Improves the capabilities to acquire and store memories (in vivo)
- Prevents death of brain neurons
 (in vitro)
- Protects nerve cells (in vitro)
- •Anti-aging (in vivo)
- ·Prevents skin aging

(in vitro, in vivo)

- ·Anti-fatigue (in vivo)
- •Enhances sexual capacity (in vivo)
- Boosts immunity (in vivo)
- Promote a lipid metabolism (in vivo)

[Origin of raw material]

Cistanche Tubulosa

[Standard component]

Echinacoside, acteoside, phenylethanoid glycoside

[Safety test]

(Cistanche Tubulosa extract)

• Single-dose test

LD50: 26.4g/kg or more

- · Ames test
- · Micronucleus test
- · Teratogenicity test
- •30 days chronic toxicity test
- •180 days chronic toxicity test

<To combat the aging of women!

Ingredient for prevention of osteoporosis and whitening>

CITRUS UNSHIU EXTRACT

(Released in October 2004)

Recommended dosage

200 to 500 mg/day (P)



Prevents osteoprosis

(in vivo)

- Suppresses osteoclast differentiation (in vitro)
- Tyrosinase inhibition (in vitro)
- Suppresses melanin production (in vivo)
- Prevents pigmentation

(in vivo₎

- •Antioxidative effect (in vitro)
- Fibroblast proliferation (in vitro)

[Origin of raw material]

Citrus unshiu peel

[Standard component]

β-cryptoxanthin

Hesperidin

[Safety test]

(-P)

·Single-dose test

LD50: 5,000 mg/kg or more

(Citrus unshiu extract)

· Ames test

-L (emulsion)



< Weight control ingredient derived from coffee that is ingested all over the world>

COFFEE BEAN EXTRACT

Application for food with function claims accepted in Japan

Recommended dosage

(Released in October 2003)

300 or 450 mg/day(WSP)

- Japanese Patent No. 4499665 (Composition for weight control)
- •US Patent No. US 8802164 (Composite for weight control)(Expiration of validity period)
- Chinese Patent No. CN 1863543(Composite for weight control)(Expiration of validity period)
- EP Patent No. EP 1674106 (Composite for weight control)(Expiration of validity period)



-P (water-soluble powder)



-WSP 🕾

(water-soluble powder)

·Fat accumulation suppression

(Open test)

After a four-week ingestion of the extract, the weight, body fat ratio, impedance, fat amount, obesity level, waist size, and the thickness of abdominal subcutaneous fat in subjects showed a tendency of descreasing as compared to baseline.

(Double-blind comparative study between parallel groups)

An eight-week ingestion test exhibited that the extract significantly improved the body weight, fat ratio, visceral fat, BMI, and arteriosclerotic index in subjects.

 Suppresses fat absorption, inhibits fat accumulation, promotes fat decomposition and fat burning

(in vitro, in vivo)

- Diabetes prevention (in vitro)
- Antioxidative effect (in vitro)

[Origin of raw material]

Coffee tree seed

[Standard component]

Chlorogenic acid, chlorogenic acids

[Safety test]

(Green coffee bean extract)

- ·Single-dose test
- LD50: 1,500 mg/kg or more
- ·Ames test
- •28 days chronic toxicity test

Contains a large amount of ergothioneine that is currently in the spotlight A beautifying ingredient from a precious high-class mushroom>

COPRINO™ EXTRACT

(Released in October 2010)

Recommended dosage

10 to 30 mg/day (P0.5)



- -Powder
- -P0.5

(water-soluble powder)

Anti-photoaging effect

(in vitro, in vivo)

- Suppresses melanin production (in vitro)
- Tyrosinase inhibition (in vitro)
- Anti-inflammatory effect (in vitro)

[Origin of raw material]

Coprinus comatus

[Standard component]

Ergothioneine

[Safety test]

(Coprinus comatus extract)

- ·Single-dose test
- LD50: 2,000 mg/kg or more
- ·Ames test



<Evening primrose extract to moderate the rise in blood glucose levels after meals>

EVENING PRIMROSE EXTRACT

*Health functional food material separately approved by Korean Food & Drug Administration

Recommended dosage

(Released in September 2000)

100 to 300 mg/day (P)

- Japanese Patent No. 4873824 (Carbohydrate absorption inhibitor and its manufacturing method)(Expiration of validity period)
- US Patent No. US6932990 (Carbohydrate absorption inhibitor)(Expiration of validity period)
- Chinese Patent No. CN1268351 (Carbohydrate absorption inhibitor) (Expiration of validity period)
- •EP Patent No. EP1312374 (Carbohydrate absorption inhibitor)(Expiration of validity period)



-P (powder)

-WSPS 🕦

(water-soluble powder)

-OIL

Controls blood glucose levels

(Double-blind single intake study)

In a sugar tolerance test, the extract was confirmed to significantly suppress increase of blood glucose levels after meals.

- Action to inhibit glycolytic enzyme (in vitro)
- Aldose reductase inhibition (in vitro)
- •Suppresses increase of blood glucose levels (in vivo)
- Tyrosinase inhibition (in vitro)

[Origin of raw material]

Evening primrose seed

[Standard component]

Polyphenols

[Safety test]

(P)

- ·Single-dose test
- LD50: 5,000 mg/kg or more
- ·Chromosomal aberration test
- · Ames test
- · Mouse micronucleus test

<Block Helicobacter pylori by urease inhibitory action and anti-bacterial action! >

EVENING PRIMROSE EXTRACT (Anti-*H.pylori*)

(Released in October 2003)

Recommended dosage

90 to 120 mg/day (P)

• Japanese Patent No. 4541662 (Anti-H.pylori composition)(Expiration of validity period)



- -PH (powder)
- -WSPH

(water-soluble powder)

·Anti-H.pylori effect

(Open study)

It has been confirmed to reduce H.pylori in the stomach.

- Inhibits the growth of *H.pylor*i (in vitro)
- Urease inhibition (in vitro)
- Suppresses attachment of *H.pylori* (in vitro)
- Suppresses *H.pylori* colonization (in
- Eliminates H.pylori (in vivo)
- Anti-tumoractivity (in vivo)

[Origin of raw material]

Evening primrose seed

[Standard component]

Polyphenol

[Safety test]

(PH)

- •Single-dose test
- LD50: 5000 mg/kg or more
- ·Chromosomal aberration test
- ·Ames test
- ·Micronucleus test on mice



<New possibilities of rice germ have been discovered through traditional Japanese fermentation technique by Apergillus oryzae! >

FERMENTED RICE GERM EXTRACT

(Released in September 2001)

Recommended dosage

200 to 500 mg/day (P)

- Japanese Patent No. 6604806 (To provide a method for producing β-sitosterol glucoside containing composition)
- Japanese Patent No. 6584899 (The method of stigmasterol Containing Compositions)
- Japanese Patent No. 6579619 (The method of glucosylceramide-containing composition)
- Japanese Patent No. 6645791 (Producing method of composition containing ergosterol peroxide)
- Japanese Patent No. 7104193 (Muscle enhancer)



-P (powder) -WSP

(water-soluble powder)

• Immunostimulatory effect (in vitro)

• Prevents bacterial infections (in vitro)

- Prolyl endopeptidase inhibitory activity (in vitro)
- Promotes muscle formation (in vitro)
- ·Maintains muscle mass

(in vivo, in vitro)

[Origin of raw material]

Rice germ

[Standard component]

Polyphenol

[Safety test]

(-P)

·Single-dose test

LD50: 5,000 mg/kg or more

<Polyphenol that helps to prevent Alzheimer's disease and improve brain function>

FERULIC ACID

(Released in March 1998)

Recommended dosage

• Japanese Patent No. 1371867(Oil-solubilized skin rub for ferulic acid ester)(Expiration of validity period)



 Prevents color degradation and discoloration of foods

(in vitro, in vivo)

- whitening effect (in vivo)
- •Blood sugar lowering activity (in vivo)
- Blood pressure lowering activity (in vivo)
- •Improves brain functions (in vivo)

[Origin of raw material]

Rice seed

[Standard component]

Ferulic acid

[Safety test]

•Single-dose test

LD50: 857 mg/kg or more

Ames test



<Prevent metabolic syndrome!</p>

A carotenoid from sea Algae with strong anti-oxidative activity>

Application for food with function claims accepted in Japan **FUCOXANTHIN** Recommended dosage (Released in September 2008) 60 mg/day (5KW) **Japanese Patent No.7246965** (Sarcopenia obesity preventive/improving agent) Action to suppress fat [Origin of raw material] accumulation Japanese kelp or wakame (Double-blind comparative study seaweed belong to algaes between parallel groups) Four-week ingestion exhibited [Standard component] selective anti-obesity effect on visceral Fucoxanthin •Increases the UCP-1 [Safety test] activity in brown adipocytes (Kelp extract) (in vivo) ·Single-dose test -5KW (oil) • Whitening effect (in vitro, in vivo) • Anti-glycation activity (in vitro) LD50: 2,000 mg/kg or more -1KW (oil) • Antioxidative activity (in vitro) •90 days chronic toxicity test -P1KW (powder) • Anti-acne activity (in vitro) · Micronucleus test -WSP0.1KW (water-soluble powder)

<Worlds' Pioneer! Fucoxanthin extracted and purified from microalgae >

	_			
FucoRex TM		Application for	food with fu	nction claims accepted in Japan
				Recommended dosage
(Released in May 2017)				100 mg/day (3)
	 Suppresses visceral fat accumulation (in v Hepatoprotective effer (in vivo) Skin beautifying active 	ct	Microalg	rd component] thin test]
-3 (oil) -1 (oil)			·Single-	dose test 1,000 mg/kg or more



<"Rejuvenating vitamin" contained only in rice oil>

GAMMA ORYZANOL ORYZA GAMMAX® (USA)

Recommended dosage

(Released in September 1982)

10 to 800 mg/day

• Japanese Patent No. 6639892 (γ-Oryzanol soluble liquid composition)



-Gamma-Oryzanol (Powder)



-GAMMAX (powder) [Compliant with U.S. FDA GRAS]

 Action to relieve postmenopausal disorders and dysautonomia
 (Multiple human clinical trials, from literature)

·Cholesterol lowering effect

(Multiple human clinical trials, from literature)

Muscle-building

(Double-blind comparative study between parallel groups, from literature)

- Antioxidative activity (in vitro)
- Prevents irritable bowel syndrome (in vivo)
- •Anti-allergic effect(in vivo)

[Origin of raw material]

Rice bran oil

[Standard component]

Gamma-Oryzanol

[Safety test]

·Single-dose test

LD50: 10,000mg/kg or more

- •180 days chronic toxicity test
- •90 days chronic toxicity test
- ·Teratogenicity test
- ·Carcinogenicity test



<Safe and reliable anti-allergic ingredient made in Japan>

JAPANESE BUTTERBUR EXTRACT

Recommended dosage

(Released in April 2004)

250 mg/day (P)

• Japanese Patent No. 4822246 (Anti-allergic agent)



-P (powder)

-WSP (water-soluble powder)

 Anti-allergic activity (helps hay fever)

(Open study)

It has been confirmed to reduce sneezing, eye itch, and improve the sense of smell. It has also been confirmed to reduce the ratio of the blood eosinophil and basophil.

- Action to suppresses mast cell degranulation (in vitro)
- Suppresses leukotrienes release (in vitro)
- Suppresses TNF-α production (in vitro)
- •Anti-inflammatory effect

(in vivo)

• Suppresses vascular and tracheal contractions

(in vitro)

[Origin of raw material]

Aerial part of Japanese butterbur

[Standard component]

Total polyphenols

Total terpenoids

[Safety test]

(Japanese butterbur extract)

·Single-dose test

LD50: 2,000 mg/kg or more

•28 days chronic toxicity test



<Skin care ingredient that prevents gout and cares deep layers of the skin>

KIKU FLOWER EXTRACT

Application for food with function claims accepted in Japan

Recommended dosage

(Released in May 2014)

100 mg ~ 200mg/day (P)

• Japanese patent No. 6452014 (Fibronectin expression promoting material)



-P (powder)

-WSP (water-soluble powder)

Anti-gout

(Double-blind comparative study between parallel groups)
It has been confirmed to possess uric acid lowering activity.

• Anti-allergic effect (Double-blind comparative study between parallel groups)

Improves itching in the eyes

- Inhibits enzyme which synthesizes uric acid (xanthine oxidase) (in vitro)
- Improves symptoms of gout (in vivo)
- Suppresses uric acid production (in vitro)
- Uric acid excretive effect(in vivo)
- Improves quality of sleep (in vivo)
- Anti-wrinkle and skin beautifying effect (in vitro)

[Origin of raw material]

Flower buds or flowers of chrysanthemum

[Standard component]

Luteolin

[Safety test]

(Chrysanthemum flower extract)

•Single-dose test

LD50: 2,000 mg/kg or more

- •28 days chronic toxicity test
- ·Ames test
- •Five times (500 mg, 1,000mg) dose intake test on human



<A natural ingredient with the ability to prevent acne, reduce wrinkles,</p> and prevent dark pigmentation under the eyes>

KIWI SEED EXTRACT

(Released in September 2005)

Recommended dosage

50 to 100 mg/day (P)

- Japanese Patent No. 4925692 (Composition for skin improvement)
- Japanese Patent No. 5462430 (Anti-inflammatory agent and painkiller)





-P (powder) -WSP



(water-soluble powder)

-OIL

· Effect on sebum secretion (antiacne)(Open study)

Inhibited 5α-reductase that generates DHT which is related to sebaceous secretion and suppressed excessive secretion of sebum.

· Anti-wrinkle action

(Open study)

Effects observed included reduction of wrinkles, normalization of skin pH and skin condition.

· Action to prevent dark pigmentation under eyes

(Open study)

The extract was confirmed to increase the brightness of skin surface around the eyes, suggesting that it can prevent dark pigmentation under eyes.

• Inhibits C. acnes-derived lipase

(in vitro)

- •Induces the proliferation of fibroblasts (in vitro)
- Tyrosinase inhibitory effect

(in vitro)

- ·Suppresses melanin production (in vitro)
- ·Reduces pigmentation

•Anti-inflammatory effect (in vitro)

[Origin of raw material]

Kiwi seed

[Standard component]

Quercitrin

Polyphenols

[Safety test]

(Kiwi seed extract)

·Single-dose test

LD50: 2,000 mg/kg or more

·Ames test

(Oil)

·Single-dose test

LD50: 5,000mg/kg or more



<Japanese krill oil containing a new component, 8-HEPE>

KRILL OIL(ISADA OIL)

(Released in May 2018)

Recommended dosage

210 mg/day (oil)



• Improving effect on dyslipidemia

(Single-blind comparative study between parallel groups)

It has been confirmed to improve blood LDL-cholesterol, triglycerides, and free fatty acids levels. As for body paraameters, it has been confirmed to reduce the body fat ratio, waist size, and hip size.

• Improving effect in brain functions

(Double-blind comparative study between parallel groups, from literature) It has been confirmed to improve memory and the ability of simple calculation.

- Anti-obesity effect (in vivo)
- Improves the quality of sleep (in vivo)

[Origin of raw material]

Isada (Pacific Krill)

Euphausia pacifica

[Standard component]

8-НЕРЕ

[Safety test]

(Isada oil)

·Single-dose test

LD50: 2,000 mg/kg or more

·Ames test

-OIL



< Moisturize the skin, improve barrier function, activate immunity, reduce the infection!>

Kuzu Lactic Acid Bacteria

(Released in November 2020)

Recommended dosage

50mg/day (P)





SkinBarrier Lactic Acid Bacteria™

· Skin care effect

(Double-blind comparative study between parallel groups)

It has been confirmed that the TEWL (cheek), saliva IgA, collagen score, and questionnaire (gloss, firmness, dryness) were improved.

• Moisturize the skin, improve barrier function (*in vivo*)

(Promote the protein expression of cornified envelope, improve TEWL)

(Origin of raw material)

Lactic Acid Bacteria (derived Kuzu)

[Standard component]

Bacteria No: 2×10¹²/g

Safety test

(SkinBarrier Lactic Acid BacteriaTM)

- · Ames test
- Human test50 mg/kg 6 weeks
- ·Single-dose test

LD50: 2,000 mg/kg or more

-P (powder)

ImmnoRise Lactic Acid Bacteria™

• Reduce the risk of virus infection

(Parallel group comparison test)

It was confirmed that the morbidity

of virus infection was significantly reduced in the children who took the ImmnoRise Lactic Acid Bacteria compared to those who did not take ImmnoRise Lactic Acid Bacteria.

- Immune activation (produce IL-12) (in vitro)
- Reduce amount of influenza virus, increase the value of neutralizing antibody against virus (*in vivo*)



<A berry from Northern Europe containing a whitening ingredient "Arbutin">

LINGONBERRY EXTRACT

(Released in April 2009)

Recommended dosage

50 to 100 mg/day (P0.5)

• Japanese Patent No. 5525716 (Pigmentation suppressor)



-J

(concentrated fruit juice)

- -PJ (water-soluble powder)
- -P0.5 (water-soluble powder)

Improves blood circulation

(Open test)

Single dose ingestion of the extract improved human skin temperature after loading hypothermic condition.

• Effect of suppression of melanin production

(in vitro, in vivo)

Tyrosinase inhibition

(in vitro)

• Prevents pigmentation (in vivo)

[Origin of raw material]

Lingonberry juice or fruit

[Standard component]

Arbutin

[Safety test]

(-P0.5)

·Single-dose test

LD50: 2,000 mg/kg or more

· Ames test

<The beautifying ingredient which Yang Guifei loved.</p>
Supports the skin beauty with a wide range of beautifying functions>

LITCHI SEED EXTRACT

(Released in November 2001)

Recommended dosage

150 to 300 mg/day (P, WSP)

- Japanese Patent No. 3708036 (Composition for skin improvement) (Expiration of validity period)
- Japanese Patent No. 3953387 (Elastase inhibitor)(Expiration of validity period)
- Japanese Patent No. 4982052 (Composition for skin improvement) (Expiration of validity period)



-P (powder)

ڪلال

-WSP (water-soluble powder)

•Effects to beautify the skin

(Open study)

It has been confirmed to improve the moisture and pH of the skin.

- Collagen production effect (in vitro)
- Collagenase inhibition (in vitro)
- Elastase inhibition(in vitro)
- Hyaluronidase inhibition (in vitro)
- Antioxidative effect(in vitro)
- Whitening effect (in vitro, in vivo)
- ·Diabetes prevention

(in vitro, in vivo)

[Origin of raw material]

Litchi seed

[Standard component]

Polyphenols

[Safety test]

(Litchi seed extract)

- ·Single-dose test
- LD50: 5,000 mg/kg or more
- •28 days chronic toxicity test
- · Ames test
- Chromosomal aberration test



<Prevent age-related Macular degeneration and Cataract.</p> High absorbable ingredient "lutein ester">

LUTEIN

(Released in May 2002)

Application for food with function claims accepted in Japan

Recommended dosage

15 to 20 mg/day (P80)

50 or 100mg/day (20F)



-P80 (powder)

- -P40 (powder)
- -L8 (water-soluble emulsion, post-ordered production)
- -20F(oil)



•Prevent age-related macular

degeneration (AMD)

and cataract

(Multiple human clinical trials, from literature)

It is considered that AMD can be prevented by supplying lutein to the macula as its amount decreases due to aging. The mechanism to prevent cataract has been unknown.

[Origin of raw material]

Marigold flowers

[Standard component]

lutein (ester), Total carotenoids (ester)

(Only -20F)

Lutein (free), Zeaxanthin (free)

[Safety test]

(-P80)

·Single-dose test

LD50: 5,000 mg/kg or more



<For the treatment of dry eyes:</pre>

A wild berry from the Patagonian wilderness in South America>

MAQUI BERRY EXTRACT

Application for food with function claims accepted in Japan

Recommended dosage

30~60 mg/day (P35)

(Released in May 2012) MaquiBrightTM

- Japanese Patent No. 6265500 (Dry eye prevention and treatment agent)
- ●EP Patent No. EP2937091 (Dry eye prevention and treatment agent)
- ●CANADA Patent No. CA2895353 (Dry eye prevention and treatment agent)
- ●ISRAEL Patent No. 239478 (Dry eye prevention and treatment agent)
- ●Korea Patent No. 10-2070479 (Prevention and treatment agent of dry eye)
- ●US Patent No. US11033566 (Prevention and treatment agent of dry eye)



-P35 🔊

(water-soluble powder)

-J 🕦

(concentrate fruit juice)

MaquiBright[®]

Improve conditions of dry eye and eyestrain

(Double-blind comparative study between parallel groups)

A test was carried out on healthy adult men and women involved in VDT work for four hours a day or longer who feel dryness and strain in their eyes. As a result, ingestion of delphinidin 3,5-diglucoside (4 mg/day)

significantly increased tear secretion and improved "bothersame ocular symptoms" and "feeling of a foreign matter in the eye" before starting VDT work and relieved shoulder strain as compared to placebo.

- Suppresses photodamage in visual cells (in vitro)
- ·Improves dry eye

(in vitro, in vivo)

[Origin of raw material]

Maqui berry fruit

[Standard component]

Total anthocyanins

Total delphinidins

[Safety test]

(Maqui berry extract)

- •Single-dose test
- LD50: 2,000 mg/kg or more
- ·Chromosomal aberration test
- Five times (300 mg)dosage intake test on human
- ·Ames test
- •90 days chronic toxicity test



< Cosmetical effect:

A wild berry from the Patagonian wilderness in South America>

MAQUI BERRY EXTRACT

(Released in May 2012) **Delphinol**TM

Recommended dosage

60 mg/day (P35)

● Japanese Patent No. 6144536 (Whitening agent)



-P35 🕦

(water-soluble powder)

-J

(concentrate fruit juice)

Delphinol[™]

Cosmetical effect

(Double-blind comparative study between parallel groups)

Ameliorating effects on skin brightness and redness.

•Prevents metabolic syndrome

(Double-blind comparative study between parallel groups)
Blood glucose, hemoglobin A1c, and HDL-cholesterol levels were improved.

- Promotes hair growth (in vitro)
- •Suppresses aging of skin (in vitro)
- Suppresses AGEs production (in vitro)
- •AGEs degradative effect(in vitro)
- Antioxidative effect (in vitro)
- ·Anti-inflammatory effect

(in vitro)

- Anti-diabetes effect(in vivo)
- Prevents arteriosclerosis (in vitro)
- Prevents osteoprosis

(in vivo)

[Origin of raw material]

Maqui berry fruit

[Standard component]

Total anthocyanins

Total delphinidins

[Safety test]

(Maqui berry extract)

- •Single-dose test
- LD50: 2,000 mg/kg or more
- ·Chromosomal aberration test
- Five times (300 mg)dosage intake test on human
- · Ames test
- •90 days chronic toxicity test



<Mono sugar absorption inhibition from Mountain Caviar!</p> For people who are worried about postprandial glucose spiking! >

MOUNTAIN CAVIAR EXTRACT YeqCaviar

(Released in October 2022)

Recommended Dosage
200-400 mg/day (P)



· Lowers postprandial blood sugar level(Onen test)

level(Open test)

It could reduce the blood sugar level significantly 30 and 60 minutes after intake glucose compared to the placebo group.

- Suppresses blood sugar level rise (delays sugariness absorption) (in vivo)
- ·Anti-obesity (in vivo)
- •Antipruritic effect (in vivo)
- **Suppresses TG absorption** (in vivo)

(Origin of raw material)

Fruits of Kochia scoparia (L.)

Standard component

Momordin Ic

[Safety test]

(P)

·Single-dose test

LD50: 2000 mg/kg or more

- ·Ames test
- Five times (1,000mg)dose intake test on human



-P (water-soluble powder)



<Increase physical strength and improve motor functions!</p> A sports-assisting ingredient>

OCTACOSANOL

(Released in October 2000)

· Ability to generate energy and

muscle growth (Multiple human clinical trials, from literature)

The following effects have been confirmed.

- 1 Enhances physical endurance, vitality, and strength
- 2 Improves reflexes and sensitivity
- (3) Increases resistance to stress
- 4 Stimulate the secretion of sexual hormones and reduce muscle spasms
- 5 Improve functions of muscles including cardiac muscle
- 6 Reduce systolic blood pressure
- 7 Improve basal metabolic rate

[Origin of raw material]

Recommended dosage

40 to 100 mg/day (P10)

Seed of rice, Gramineae

[Standard component]

Octacosanol

[Safety test]

·Single-dose test LD50: 2,000 mg/kg or more



- P1 (powder),- P8 (powder)
- P10 (powder)
- P12 (powder)
- P30 (powder)
- P45 (powder)
- P60 (powder)
- L0.5 (emulsion)



<Maintain moisture and boost barrier function! "Edible ceramide">

ORYZA CERAMIDETM

Application for food with function claims accepted in Japan

Recommended dosage

(Released in September 1999)

40 mg/day (PCD,PT,WSP)

• Japanese Patent No. 6723737 (Glucosylceramide production and metabolic gene expression promotive agent used on the skin)



- -PT (powder)
- -PCD (powder)



(water-soluble powder)

- -L (emulsion)
- -L0.8 (emulsion)





(Double-blind comparative study between parallel groups)

It is expected to enhance skin barrier function and provide a moisturizing effect by reconstructing ceramides, promoting the formation of cornified envelopes, and enhancing the function of tight junctions in epidermis.

- Skin beautifying effect (improve acne and skin condition) through the use with kiwi seed extract (Open study)
- Improving cold symptoms and immunity score

(Double-blind comparative study between parallel groups)

- •Barrier Enhancement (in vivo)
- Whitening effect (in vitro)
- Reduces symptoms of atopic dermatitis (in vivo)
- Anti-influenza effect(BSG)(in vivo)

[Origin of raw material]

Rice bran and rice germ

[Standard component]

Glycosphingolipids

[Safety test]

(Rice extract)

- ·Single-dose test
- LD50: 5,000mg/kg or more
- ·28 days chronic toxicity test



<Worlds' pioneer! Success in concentration of rice-derived GABA! >

ORYZA GABATM

Application for food with function claims accepted in Japan

Recommended dosage

(Released in September 1996)

13.7 to 111 mg/day (HC90)

• Japanese Patent No. 2810993 (Degreased food material enriched with γ-aminobutyric acid)(Expiration of validity period)



Tranquillizing effect

(Double-blind comparative study between parallel groups)

It has been confirmed to enhance parasympathetic nerve activities to ease tensions and provide a relaxing

 Suppresses blood pressure elevation

(Double-blind comparative study between parallel groups)

It has been confirmed to suppress the activities of sympathetic nerves and lower blood pressure by activating GABA (B) receptors in peripheral nerves and controlling the release of noradrenaline.

[Origin of raw material]

Rice germ

[Standard component]

Gamma-aminobutyric acid

(GABA)

[Safety test]

(-HC90, -Germ P)

·Single-dose test

LD50: 2,000 mg/kg or more

(-HC5, -C)

·Single-dose test

LD50: 5,000mg/kg or more

(-HC90)

·Ames test

-HC5 (water-soluble powder) -HC90(water-soluble Powder)





-Germ P (germ powder)



- F95R(water-soluble Powder)



<Featuring high absorption and excellent water solubility!</p> Peptides which are improve to enhance skin conditions>

ORYZA PEPTIDETM

(Released in September 2009)

Recommended dosage

500 to 1000 mg/day (P60)

• Japanese Patent No. 6811455 (N-acetyltransferase activator)



Weight-controlling action

(Double-blind comparative study between parallel groups)

Combination of ingestion of a beverage containing 1 gram of Oryza light Peptide and exercise demonstrated weight loss, as and as subcutaneous fat reduction, while improving body shape.

•Anti-obesity action (in vivo)

Whitening and beautifying

effects(in vitro, in vivo)

•Liver-protective effect(in vitro)

Antioxidative effect(in vitro)

[Origin of raw material]

Rice

[Standard component]

Peptides

[Safety test]

(-P60)

·Single-dose test

LD50: 5,000mg/kg or more

· Ames test



-P60

(water-soluble powder)



<Use this to promote good conditions of hair, nails and eyelashes!</p> A versatile beautifying ingredient>

ORYZA POLYAMINETM

(Released in May 2012)

Recommended dosage

50 to 100 mg/day (P)

• Japanese Patent No. 6192036 (Ingredient of cosmetics for eyelashes and cosmetics for eyelashes using it)



Improves nail conditions

(Double-blind comparative study between parallel groups)

It has been confirmed to improve the conditions of the nail by increasing the ceramide content in the nail and lo prevent moisture evaporation.

- Promotes hair growth (in vitro)
- ·Anti-glycation effect

(in vitro)

[Origin of raw material]

Rice germ

[Standard component]

Polyamine

[Safety test]

(Rice germ extract)

·Single-dose test

LD50: 2,000 mg/kg or more

Ames test

-P (water-soluble powder)



<Allergen-free, gluten-free, and non-GMO "rice-derived protein">

ORYZA PROTEINTM

(Released in September 2009)

- Prevents weight gain (in vivo)
- •Lowers cholesterol levels (in vivo)
- *The emulsifying capacity of Oryza Protein® was compared with soy protein, wheat protein, milk protein, and pea protein. As a result, Oryza Protein was confirmed to have an emulsifying capacity which is equivalent to or higher than the proteins mentioned above.

Recommended dosage

500 to 1,000 mg/day (P70)

[Origin of raw material]

Rice

[Standard component]

Protein

[Safety test]

(-P70)

·Single-dose test

LD50: 2,000 mg/kg or more

· Melamine analysis

(not detected)



-P70 (powder)



-P80(powder)



<100% rice-derived sterol>

ORYZA STEROL

(Released in September 1999)

Recommended dosage

500 mg/day (P)



-P (powder)

(post-ordered production)

-L (emulsion)

(post-ordered production)

•Reduces blood cholesterol levels

(Single-blind crossover study, from literature)

Ingestion of β -sitosterol is expected to reduce the amount of dissolved cholesterol and suppressing cholesterol absorption from gut.

 Alleviates urinary disorders caused by benign prostatic hypertplasia

(Double-blind comparative study between parallel groups, from literature)

It has been confirmed to alleviate BPH and help improve the QOL of men.

•Blood triglyceride lowering effect (in vivo)

[Origin of raw material]

Rice bran and rice germ

[Standard component]

Sterol

[Safety test]

(-P)

·Single-dose test

LD50: 2,000 mg/kg or more

<Protect the body from oxidation by strong anti-oxidative power! Super vitamin E>

ORYZA TOCOTRIENOLTM

(Released in September 1998)

Recommended dosage

160 to 380 mg/day (oil)

● Japanese Patent No. 5306626 (A technology of powder preparation which could be used in food material and cosmetic material) (Expiration of validity period)



- (oil)
- -90 (oil)
- -P15CD (powder)
- -P27CD (powder)
- -L10 (water-soluble emulsion)

Cholesterol reducing effect

(Multiple human clinical trials, from literature)

It has been confirmed to act on liver cells to selectively lower LDLcholesterol level.

Improves Atherosclerosis

(Double-blind comparative study between parallel groups, from literature)

It has been confirmed to suppress platelet aggregation or inhibit vasoconstriction.

- •Anti-cancer (in vivo)
- Antioxidative effect (in vivo)
- •hyaluronic acid production(in vivo)
- •Suppresses pigmentation (in vivo)
- Activation of cells (in vitro)

[Origin of raw material]

Rice bran and rice germ

[Standard component]

Total Tocopherol

Total Tocotrienol

[Safety test]

·Single-dose test

LD50: 5,000mg/kg or more

^{*-}Packaging size of Tocotrienol and -90: 15 kg is also available.



<Improve the circadian rhythm!</p>

A blessing of beautiful flowers required by busy people in modern life >

PASSIONFLOWER EXTRACT

Application for food with function claims accepted in Japan

Recommended dosage
200 mg/day (P)

(Released in October 2016)

● Japanese Patent No. 6909569 (Skin care material)

● Japanese Patent No. 7007798 (Improving Life Rhythm)



-P (powder)

-WSP (water-soluble powder)

•Improves mental QOL and vitality

(Double-blind comparative study between parallel groups) It improved mental health in people

with irregular lifestyles and people with low motivation to do work or housework.

- Increases the expression of clock genes(in vitro, in vivo)
- Improves the quality of sleep (in vivo)

• Antioxidative effect (in vitro)

[Origin of raw material]

Aerial part of passion flower

[Standard component]

Total flavonoids

[Safety test]

(Passion flower extract)

·Single-dose test

LD50: 2,000 mg/kg or more

- ·Ames test
- Micronucleus test

Comet assay test
•Five times (1,000mg)dose

intake test on human



<Prevent dental cavity and periodontal disease</p> with the antibacterial power of the perilla seed! >

PERILLA SEED EXTRACT

(Released in September 1997)

(Anti-allergic)

Recommended dosage

100 to 150 mg/day (P)

- Japanese Patent No. 4231559 (Lipoxygenase inhibiting agent) (Expiration of validity period)
- ■US Patent No. US 6217875 (Lipoxygenase inhibiting agent) (Expiration of validity period)



-P (powder)



 $\hbox{-}WSP\ (water-soluble\ powder)$

-L (liquid)

-OIL

Selectively suppresses IgE

(Open study)

It has been confirmed to reduce allergic reactions by selectively suppressing IgE concentration which is directly involved in type allergies. No adverse effects to reduce the immune system were observed.

·Action to reduce aging odor

(Open study)

An effect against elders person's smell (aldehyde odor) has been confirmed.

- ·Anti-allergic and antiinflammatory effects (in vivo)
- Inhibits 5-lipoxygenase and suppresses histamine release (in vitro)

[Origin of raw material]

Perilla seed

[Standard component]

Polyphenols

[Safety test]

(-P)

·Single-dose test

LD50: 2,000 mg/kg or more

•28 days chronic toxicity test

< Relieve allergic symptoms in modern people by the power of perilla seed>

PERILLA SEED EXTRACT (Oral care)

(Released in September 1999)

Recommended dosage

80 to 160 mg/day (PO)

■ Japanese Patent No. 4112730 (Antibacterial agent for oral cavity) (Expiration of validity period)



-PO (powder)

-LO (liquid)

 Antibacterial effect against dental cavity and periodontal disease

(in vitro)

- Antioxidative effect (in vitro)
- •Anti-inflammatory effect (in vivo)
- ·Deodorant effect against cigarette breath, bad breath, and sweat smell

(in vitro)

[Origin of raw material]

Perilla seed

[Standard component]

Polyphenols

[Safety test]

(-PO)

·Single-dose test

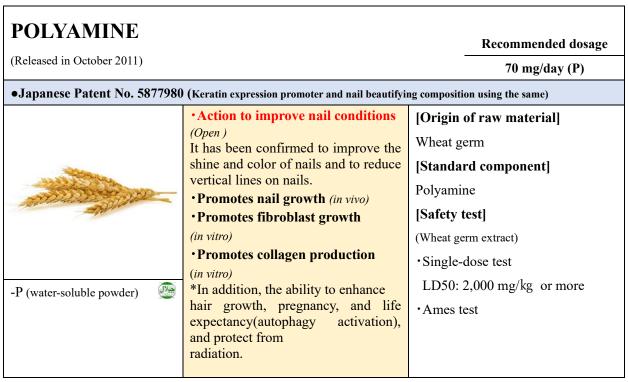
LD50: 2,000 mg/kg or more



< Lower LDL (Low-density lipoprotein) cholesterol and high blood pressure! >

Application for food with function claims accepted in Japan PERILLA SEED OIL Recommended dosage LDL cholesterol: 10 g/day (Released in September 1997) High blood pressure: 5 g/day Lower LDL cholesterol Origin of raw material (Double-blind comparative study between Seed of Perilla frutescens parallel groups) **Standard component** Improved the level of LDL cholesterol α-Linolenic acid in healthy adult people. ·Lower high blood pressure (Double-blind comparative study between parallel groups) Lower the high blood pressure of - Oil 🕦 healthy adult people.

<An ingredient extracted from wheat for beauty hair, nails, and eyelashes, as well as accelerating hair growth>





< Anti-wrinkle product extracted from fruits of Psoralea corylifolia, edible and drinkable!>

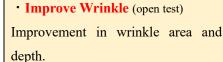
PSORALEA CORYLIFOLIA FRUIT (PhytoRetinolTM) **EXTRACT**

Recommended dosage

35mg/day (oil)

(Released in November 2020)





 suppress the atrophy of fibroblast induced by UV-A (in vitro)

·Contract the Collagen gel and increase protein of integrin 1 (in vitro)

•Promote mRNA expression of Fibrin 4 (in vitro)

•Promote protein expression of Laminin 5 (in vitro)

(Origin of raw material)

Fruits of Psoralea corylifolia

Standard component

Bakuchiol

Safety test

(PhytoRetinolTM)

- · · Single-dose test LD50: 2,000 mg/kg or more
- · Ames test
- Phototoxicity test (rats) 500mg / kg
- Phototoxicity test (fibroblast)



-P1 (powder) 👺

• Inhibit hyaluronidase (in vitro)

<Protect the eyes and skin! Power of anthocyanins from purple rice>

PURPLE RICE EXTRACT

(Released in September 2002)

Recommended dosage

200 to 400 mg/day (P)

• Japanese Patent No. 5916203 (ER stress reducer)



-P (water-soluble powder)

· Suppresses blood sugar elevation after meals

(Double-blind single intake study) It has been confirmed that the blood

sugar elevation 30 minutes after meals was significantly suppressed.

Prevents eye diseases

(in vitro, in vivo)

- ·Inhibit s carbohydrate absorption (in vitro)
- Beautifying effect(in vitro)

[Origin of raw material]

Purple rice seed

[Standard component]

Polyphenols

Anthocyanins

[Safety test]

(Purple rice extract)

- ·Single-dose test
- LD50: 5,000 mg/kg or more
- •28 days chronic toxicity test
- ·Ames test

^{*}Packaging size of -P:3 kg



<From a tea country, Kenya! Healthy and beauty promoting tea>

PURPLE TEA EXTRACT

(USA) PURPLE (FORGE (USA)

Recommended dosage

100 mg/day (P)

• Japanese Patent No. 6933781 (AMPK activator)

• Japanese Patent No. 6227851 (Circadian rhythm adjustment agent) (Expiration of duration of patent right)

•US Patent No.11478495 (AMPK activator)



(Released in October 2013)

-P (powder)



-WSP (water-soluble powder)

·Weight controlling and beautifying effects

(Open study)

It has been confirmed to reduce the thickness of subcutaneous fat in the abdomen and upper arms. It lowered body fat percentage, cholesterol, and blood glucose of women. As for beautifying effects, an increase in collagen score and moisture content on the cheeks, and a decrease in oil on the forehead were observed.

- Suppresses aging of skin (in vitro)
- Antioxidative effect (in vitro)
- Whitening effect(in vitro)
- ·Suppresses AGEs production

(in vitro)

- AGEs degradative effect(in vitro)
- Activate AMPK in muscle cells (in vitro)

PURPLE! FORCE

Beneficial effect for exercise

(Randomized double-blind comparative study between parallel groups)

The endurance ability of exercise in muscle of lower body was improved, and the value of lactate dehydrogenase (LDH), which is a general index for measuring muscle damage, was decreased. Meanwhile, it was confirmed that the motivation of exercise was improved.

•Promotes NO production in endothelial cell(in vitro)

[Origin of raw material]

Purple tea leaf

[Standard component]

Total polyphenols

GHG

[Safety test]

(Purple tea extract)

·Single-dose test

LD50: 2,000 mg/kg or more

·Ames test



<To relieve arthritic symptoms and support joints care!</p> Anti-inflammatory ingredient>

RED GINGER EXTRACT

(Released in May 2006)

Recommended dosage

15 to 20 mg/day (P)

- Japanese Patent No. 5303697 (Anti-inflammatory agent and painkiller)
- •US patent: 8017162 (Anti-inflammatory agent)



-P (powder) -WSP 👺



(water-soluble powder)

Action to prevent arthritis

(Open study)

It has been confirmed to significantly reduce hyaluronic acid which is a blood inflammation parameter.

·Suppresses acute and chronic inflammation

(in vivo)

·Selectively inhibits COX-2 (in vivo)

- Suppresses prostaglandin (PG) production (in vitro)
- ·Synergistic action with glucosamine (suppress Nitric Oxide production) (in vitro)

[Origin of raw material]

Red ginger rhizome

[Standard component]

[6]-Gingerol and [6]-shogaol

Tannins

[Safety test]

(Red ginger extract)

·Single-dose test LD50: 2,000 mg/kg or more

- · Ames test
- •28 days chronic toxicity test

<Ancient rice eaten since the Yayoi Period (400 B.C. to A.D. 300)</p> Use the power of the pigment of red rice to fight against metabolic syndrome! >

RED RICE EXTRACT

(Released in November 2007)

Recommended dosage

50 mg/day (P)



-P (powder)



-WSP 🕦 (water-soluble powder) Improves conditions of metabolic **syndrome**

(Open study)

It has been confirmed to lower cholesterol and triglyceride levels in people with hyperlipidemia.

- Antioxidative effect (in vitro)
- Improves conditions of hypertriglyceridaemia (in vivo)
- Improves conditions of hypercholesterolemia (in vivo)
- ·Promotes lipid metabolism

(in vitro)

[Origin of raw material]

Red rice

[Standard component]

Polyphenols

[Safety test]

(Red rice extract)

·Single-dose test

LD50: 1,000mg/kg or more

· Ames test

(-P)

·Intaking test in human

50 mg, 3 weeks



<A leading anti-aging ingredient! A polyphenol derived from grapes>

RESVERATROL

(Released in September 2007)

Recommended dosage

20 to 40 mg/day (P5)



 Anti-metabolic syndrome effect (Open study)

four-week ingestion RESVERATROL exhibited decrease in lipid and glucose levels. It also reduced oxidative stress.

Anti-aging effect

(in vitro, in vivo)

- •Anti-oxidative effect (in vitro)
- Beautifying effect (in vitro)
- •Anti-P. acnes effect (in vitro)
- •Neuroprotective effect (in vivo)

[Origin of raw material]

Grape leaf, seed, skin

[Standard component]

Polyphenols

Trans-resveratrol

[Safety test]

(-P10 *Test on products with a high resveratrol content)

·Single-dose test LD50: 2,000 mg/kg or more (-P5)

- •28 days chronic toxicity test
- · Micronucleus test

-P5 (powder)



-WSP0.5 (water-soluble powder)



<Sleep quality improvement & Motivation maintenance for getting things done>

SAFFRON EXTRACT Safleep

(Released in May 2023)



22 mg/day (P)





-P (water-soluble powder)

• Sleep quality improvement (Multiple human clinical trials)

It has been confirmed to have improving effects on sleep quality, and maintaining effects on motivation for things done.

Anxiolytic effect

(Double-blind comparative study between parallel groups)

Ingestion of saffron extract reduced anxiety symptoms.

· Non REM sleep extension (in vivo)

[Origin of raw material]

saffron stigmas

[Standard component]

Crocin

Safety test

(P)

• Single-dose test

LD50: 2000 mg/kg or more

· Ames test

● Japanese Patent No. 5610577 (Sleep improvement agent and sedative and their use*)

^{*}Owned by Daiichi University of Pharmacy



<Excellent anti-glycative action of Japanese National flower "Sakura" (cherry blossom)>

SAKURA EXTRACT Florabella (USA)

(Released in April 2010)

Recommended dosage

50 to 150 mg/day (P)

- Japanese Patent No. 5783784 (Nitric oxide production inhibitor)
- Japanese Patent Nos. 5878023 and 5792844 (Suppression of AGE production)
- •US Patent No. US9381223 (Suppression of AGE production)
- Chinese Patent No. CN102883733 (Suppression of AGE production)
- •Malaysia Patent No. MY173496 (Suppression of AGE production)



-P (water-soluble powder)

-SYRUP

Anti-glycation

(Double-blind comparative study between parallel groups)

An eight-week intake of the extract exhibited the following effects. (1) Reduction of AGEs (2) Suppression of the reduction in skin elasticity (3) Reduction of dark spots and red areas (4) Prevention of pore formation (5) Prevention of dry skin caused by decrease in humidity (6) Increase in the smoothness of the skin

- *Suppresses AGE production (in vitro)
- AGEs degradative effect(in vitro)
- Produces collagen and forms matrices (in vitro)
- Suppress fibroblast apoptosis(in vitro)
- Suppress melanin production (in vitro)
- •Anti-inflammatory action (in vitro)

[Origin of raw material]

Cherry Blossom flower

[Standard component]

Caffeoyl glucose

Quercetin glucoside

[Safety test]

(Cherry Blossom flower extract)

- ·Single-dose test
- LD50: 2,000 mg/kg or more
- •28 days chronic toxicity test
- •90 days chronic toxicity test
- ·Ames test

^{*} Packaging size of -SYRUP: 20 kg



Support urinary problems caused by overactive bladder or benign prostatic hyperplasia! >

SEABERRY EXTRACT

(Released in May 2015)

Recommended dosage

200~400 mg/day (P)

Japanese Patent No.7237204 (5α-reductor inhibitor)



-P (powder)



-WSP

(water-soluble powder)

-FRUIT OIL 🕾



 Suppresses overactive bladder

(Double-blind comparative study between parallel groups) Improved urinary problems suppressing the excessive contractions of bladder smooth muscles and relieving urination-

related anxiety and urinary urgency.

 Suppresses prostatic hypertrophy

(Open study)

 Suppresses excessive contractions of the bladder

(in vitro, in vivo)

- •5α-reductase inhibition effect (Synergistic effect with Saw palmetto)(in vivo)
- ·Suppresses BPH

(in vivo)

- ·Relieves and reduces irritation by air pollutants and dryness (in vitro)
- •Anti-oxidative action (in vitro)

[Origin of raw material]

Seaberry fruit

[Standard component]

Ursolic acid

[Safety test]

(Seaberry extract)

- ·Single-dose test
- LD50: 2,000 mg/kg or more
- ·Ames test
- · Five times dosage intake test in human

(Seaberry fruit oil)

- ·Single-dose test
- LD50: 2,000 mg/kg or more
- · Ames test



< Oral cavity care material which improves dry mouth and bad breath! >

Sichuan Pepper Oil (SalivaMoist™) SalivaMoist™

Recommended dosage

50- 10

50~100 mg/day (-P5)

(Released in November 2020)



• Promote saliva secretion
(Open test)

• Promote saliva secretion

(Compared intake of before and after by Saxon test)

It was confirmed that the amount of saliva was improved. The related symptoms of oral cavity were improved.

- Activate TRP channel (in vitro)
- Anti-bacterial activity against *S. mutans* and *P. gingivalis* (*in vitro*)

(Origin of raw material)

Sichuan pepper rind

[Standard component]

Total hydroxy-sanshools

[Safety test]

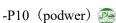
(Sichuan pepper Oil)

·Single-dose test

LD50: 1,000 mg or more

·Ames test

- -5 (oil) 🕦
- -P5 (podwer)





(New Product)

Smooth blood flow, improvement of cold sensitivity & swelling! Beauty benefits expected from blood circulation improvement ingredients.

STRAWBERRY GUAVA EXTRACT FemBerr (FemBerryTM)

(Released in October 2023)

Recommended dosage

100mg/day (P)





-P (water-soluble powder)

Platelet aggregation inhibition

(Placebo-controlled trial)

A single intake significantly reduced platelet aggregation rate.

Body temperature recovery promotion

(Placebo-controlled trial)

A cold water stress test was conducted 30 minutes after ingestion, and it was confirmed that it had an effect on promoting recovery of skin surface temperature.

Blood flow improvement

(Placebo-controlled trial)

When the finger peripheral blood flow velocity was measured 30 minutes after ingestion, an example of acceleration was observed.

Swelling improvement

(Single-blind crossover study)

Six hours after ingestion, water retention in the legs tended to improve.

- · Platelet aggregation inhibition (in vitro)
- Skin barrier function enhancement (in vitro)
- Vascular barrier **function** enhancement (in vitro)

(Origin of raw maerial)

Fruits of strawberry guava

(Standard component)

Adenosine

Glucosylceramide

Safety test

(P)

· Single-dose test

LD50: 2,000 mg/kg or more

· Ames test



<Expected to show synergistic effects with ceramide!</p> An ingredient to moisturize the epidermis and improve skin barrier function>

STRAWBERRY SEED EXTRACT

Recommended dosage

(Released in May 2008)

40 to 80 mg/day (P)

- Japanese Patent No. 5996156 (Gene expression promoter for skin beautification, moisturizing composition and skin beautifying composition using them)
- Japanese Patent No. 6516246 (Gene expression promoter for filaggrin and involucrin)
- Japanese Patent No. 6433053 (Lipid accumulation promoter in sebaceous gland cells)
- Japanese Patent No. 6635615 (Lipid accumulation promoter in sebaceous gland cells)



-P (powder)

-Seed oil (post-ordered production) Beauty enhancing action (moisturizing, beautifying, and whitening)

(Open study)

It has been confirmed to improve subjective outcomes related to skin moisture e.g. moist feeling and rough feeling of the skin

- ·Reinforces the skin's barrier function (in vivo)
- Moisturizing effect(in vivo)
- ·Increases ceramide content (in vitro)
- ·Increases filaggrin and involucrin content (in vitro)
- Anti-obesity effect (in vivo)

[Origin of raw material]

Strawberry seed

[Standard component]

Polyphenols

Tiliroside

[Safety test]

(Strawberry seed extract)

·Single-dose test

LD50: 2,000 mg/kg or more

· Ames test



<Forcusing on the beautifying action of Saponin that is characteristic to the seeds!</p> Make your skin as firm as tomatoes! >

TOMATO SEED EXTRACT

Application for food with function claims accepted in Japan

Recommended dosage

(Released in October 2018)

LycoLife"

200 mg/day (P)

- Japanese Patent No. 6799114 (ECM cycle normalizing agent)
- Japanese Patent No. 7026181(ECM cycle normalizing agent)



-P (water-soluble powder)

 Maintain skin elasticity, improve glycation stress

(Double-blind comparative study between parallel groups)

After 8 weeks of intake, it was confirmed that the decrease in skin elasticity was significantly suppressed and the glycation stress was also reduced.

• Improves the skin elasticity and increases collagen content

(Open test)

A four-week intake significantly increased the skin collagen score skin and improved in questionnaire skin conditions.

- Promotes collagen production (in vitro)
- Promotes elastin production (in vitro)

Promotes uptake of collagen and elastin degradation (in vitro)

- Increases number of intradermal lysosomes(in vitro)
- Anti-allergic effect(in vitro, in vivo)
- ·Dry skin ameliorative effect

(in vitro, in vivo)

[Origin of raw material]

Tomato seed

[Standard component]

Total Lycoperoside

[Safety test]

(Tomato seed extract)

- •Single-dose test
- LD50: 2,000 mg/kg or more
- · Ames test
- Five times (1,000mg)dose intake test on human



< Suppress fat absorption and fat accumulation, protect liver, No caffeine >

VINE TEA EXTRACT 'Reso\ine"

Recommended dosage

250mg/day (P)

(Released in November 2021)





-P (powder)

Suppresses fat absorption

(Double-blind comparative study between parallel groups)

It has been confirmed that the visceral fat area and abdominal circumference were decreased after 12 weeks intake.

(Single-blind crossover study)

The increasing of serum triglyceride was significantly suppressed after 2 hours intake under high-fat diet, and the AUC of triglyceride was also significantly reduced.

- •Suppresses fat absorption (in vivo)
- •Suppresses fat accumulation

(in vitro, in vivo)

- Promotes fat metabolism (in vitro)
- Inbibits activity of pancreatic lipase (in vitro)
- Protects liver (non-alcohol and alcohol induced fatty liver)

(in vitro, in vivo)

(Origin of raw material)

Leaves of Vine tea

Standard component

Ampelopsin

Safety test

(powder)

- Singer-dose test
 - LD50: 2000 mg/kg or more
- · Ames test



<Protect liver and prevent metabolic syndrome!</p> Hydrolyzable polyphenols with an anti-oxidative effect>

WALNUT POLYPHENOL

(Released in September 2006)

Recommended dosage

50 to 150 mg/day (P10, WSP10)



-P10 (powder)

-WSP10

(water-soluble powder)

-OIL

Prevention of metabolic syndrome

(Multiple human clinical trials, from literature)

As the intake of walnut has been confirmed to be effective for improving blood cholesterol levels and preventing arteriosclerosis, walnut seed oil, which contains a large amount of unsaturated fatty acids, is expected to have a similar effect.

•Liver-protective effect

(in vitro, in vivo)

·Improves lipid metabolism

(in vitro, in vivo)

·Anti-diabetic effect

(in vitro, in vivo)

•Suppresses melanin production (in vitro)

[Origin of raw material]

Walnut seed skin

[Standard component]

Tellimagrandin I

Polyphenols

[Safety test]

(Walnut extract)

·Single-dose test

LD50: 2,000 mg/kg or more

•Intake test on human (-P10)

50 mg, 4 weeks



<Watershield, a speciality of Akita Prefecture in Japan, is tasty and skin applicable!</p> Prevent and reduce cellulite! >

WATERSHIELD EXTRACT

(Released in September 2012)

Recommended dosage

150 mg/day (P)

- Japanese Patent No. 6075025 (New compound and its use)
- Japanese Patent No. 6198463 (Composition for anti-aging of skin)



-P (powder)
-WSP (water-soluble powder)

·Reduces fats

(Open study)
A three-week intake of the extract reduced the thickness of abdominal subcutaneous fat (males).

•Reduces body fats and cellulite (Open study)

A three-week intake reduced body fat percentage, visceral fat index, and hip size. It has been also confirmed to reduce cellulite and improved collagen score (females).

- Suppresses fat accumulation (in vitro, in vivo)
- Suppresses fibroblast damage and promotes collagen production (in vitro)
- •Stimulates production of adiponectin and hyaluronic acid (in vitro)

[Origin of raw material]

Watershield leaf

[Standard component]

Total polyphenols

Junsainoside A

Polysaccharides

[Safety test]

(Watershield extract)

Single-dose test

LD50: 2,000 mg/kg or more

(-WSP)

·Ames test



<A beautifying and weight control ingredient which in loved by Yang Guigei >

WHITE JELLY FUNGUS EXTRACT

Recommended dosage

(Released in October 2007)

50 to 200 mg/day (P)

• Japanese Patent No. 5525700 (liquid composition as well as beverages and cosmetics using it)



-P (water-soluble powder)

Suppresses hyperlipidemia

(Open study)

Exhibited a tendency to reduce LDL cholesterol, triglyceride, as well as free fatty acids and to increase HDL cholesterol.

A tendency to improve hyperlipidemia has been confirmed.

- •Action to activate enzymes that metabolize sugars (in vitro)
- Interferes with fat accumulation (in vivo)
- Interferes with fat absorption (in vivo)
- •Lowers triglyceride and cholesterol levels(in vivo)
- Promotes bile acid secretion (in vivo)
- Promotes the growth of Lactobacillus and Bifidobacterium

(in vitro)

[Origin of raw material]

Fruiting body of white jelly fungus

[Standard component]

Glucuronic acid

White jelly fungus

polysaccharides

[Safety test] (-P)

- ·Single-dose test
- LD50: 1,000 mg/kg or more
- ·30 days chronic toxicity test
- ·Ames test
- ·Subacute toxicity test
- · Teratogenicity test
- •Intake test in human 50 mg, 3 weeks



<Beautifying and relaxing effects of Yuzu seed with a high limonin content>

YUZU SEED EXTRACT

(Released in April 2005)

Recommended dosage

200 to 300 mg/day (P)

• Japanese Patent No. 5014569 (Composition for skin improvement)





-P (powder)



-WSP 👺

(water-soluble powder)

-OIL

•Beautifying effects (Open study)

A four-week ingestion resulted in increase in skin moisture in and improved skin texture *via* the promotion of skin turnover and expression of the hyaluronic acid synthesizing enzyme.

• Anti-stress effect (Open tstudy)

A single dose ingestion exhibited a relaxing effect *via* the enhancement of electroencephalogram(alpha waves) and improvement of blood flow.

Improves blood circulation

(Open test)

- Whitening effect (in vitro)
- Increases fibroblast proliferation

(in vitro)

- Promotes skin turnover (in vitro)
- Suppresses expression of enzymes which decompose skin

components (in vitro)

• Anti-metabolic syndrome effect (in vivo)

[Origin of raw material]

Yuzu seed

[Standard component]

Limonin

[Safety test]

(Yuzu seed extract)

- ·Single-dose test
- LD50: 5,000 mg/kg or more
- ·Ames test
- •28 days chronic toxicity test

APPENDIX 1. List of Recommended Dosage

	Products	Grade	Recommended Dosage/day
A		- (Oil)	100mg
	AGUAJE EXTRACT	-P (Powder)	330mg
		-L (Emulsion)	330mg
		-P (Powder)	50~100mg
	ALDIIA LIDOIC ACID	-P80 (Powder)	60∼120mg
	ALPHA LIPOIC ACID	-WSP7(Water-Soluble Powder)	700~1,400mg
		-L1 (Emulsion)	500~1,000mg
		- 5 (Oil)	80~120mg
	A CT A M A NITH HAN	-20 (Oil)	20~30mg
	ASTAXANTHIN	-P1 (Powder)	400~600mg
		-LS1 (Emulsion)	400~600mg
В	BIRD'S NEST EXTRACT	-P (Water-Soluble Powder)	70mg
	BLACK GINGER EXTRACT	-P (Powder)	50~150mg
	imesIn the case of foods with function claims :	WCD (W . C.1.11 D. 1.)	500 - 1 500 · · ·
	P Recommended Dosage: 100mg/day	-WSP (Water-Soluble Powder)	$500 \sim 1,500 \mathrm{mg}$
		-EXTRACT (Water-Soluble Powder)	90~180mg
	BROCCOLI SPROUT EXTRACT	-PS1 (Water-Soluble Powder)	180~360mg
	imesIn the case of foods with function claims :	-EX (Water-Soluble Powder)	35∼70mg
	EX Recommended Dosage: 185mg/day	-BROCCOLI SPROUT POWDER	150~300mg
		-BROCCOLI POWDER	4.5∼9g
	BUCKWHEAT LEAF EXTRACT	-P (Powder)	240~600mg
		-WSP (Water-Soluble Powder)	12~30g
С	COCOA EXTRACT	-P (Powder)	100~250mg
		-WSP (Water-Soluble Powder)	400~1,000mg
	CHINESE CHINE SEED EVEDACE	-P (Powder)	100mg
	CHINESE CHIVE SEED EXTRACT	-WSP (Water-Soluble Powder)	100mg
	CISTANCHE TUBULOSA EXTRACT	- P25 (Water-Soluble Powder)	100~400mg
	CITTURE LINCLULE EVED ACT	-P (Powder)	200~500mg
	CITRUS UNSHIU EXTRACT	-L (Emulsion)	600~1,500mg
	COFFEE BEAN EXTRACT	-P (Water-Soluble Powder)	100~200mg
	**In the case of foods with function claims: WSP Recommended Dosage: 300mg or 450mg/day	-WSP (Water-Soluble Powder)	100~200mg
		- POWDER	20~60mg
	COPRINO™ EXTRACT	- EXTRACT P0.5 (Water-Soluble Powder)	10~30mg

	Products	Grade	Recommended Dosage/day
Е	EVENING PRIMROSE EXTRACT	-P (Powder)	100~300mg
Ī		-WSPS(Water-Soluble Powder)	100~300mg
1	EVENING PRIMROSE EXTRACT	- PH (Powder)	90~120mg
1	(Anti-H.pylori)	-WSPH (Water-Soluble Powder)	180~240mg
F		-P (Powder)	200~500mg
1	FERMENTED RICE GERM EXTRACT	-WSP (Water-Soluble Powder)	1.4~3.5g
1		-5KW (Oil)	10~60mg
1	FUCOXANTHIN *In the case of foods with function claims:	-1KW (Oil)	50~300mg
1	5KW (oil) Recommended Dosage: 60mg/	-P1KW (Powder)	50~300mg
1	day	-WSP0.1KW (Water-Soluble Powder)	500~3,000mg
1	FucoRex™	-3 (Oil)	100mg
1	*In the case of foods with function claims:	-1 (Oil)	300mg
G	3 (oil) Recommended Dosage: 100mg/day		Menopause : 10∼600mg
	GAMMA ORYZANOL	- (Powder, Food Additive)	Dysautonomia: 130~140mg
1	GAIVINA ORTZANOL	(- 0 / 40 / - 0 / 4 / - 0	Hyperlipidemia / cholesterol : 50~800mg
J		-P (Powder)	250mg
ı	JAPANESE BUTTERBUR EXTRACT	-WSP (Water-Soluble Powder)	250mg
K	KIKU FLOWER EXTRACT	-P (Powder)	100mg
1	*In the case of foods with function claims : P Recommended Dosage: 100mg or 200mg/day	-WSP (Water-Soluble Powder)	10g
1	KIWI SEED EXTRACT	-P (Powder)	50~100mg
1		-WSP (Water-Soluble Powder)	50~100mg
1	KRILL OIL(ISADA OIL)	- (Oil)	210mg
1	KUZU LACTIC ACID		
	BACTERIA(ImmnoRise Lactic Acid Bacteria TM /SkinBarrier Lactic Acid Bacteria TM)	-P (Powder)	50mg
L		-J (Concentrated Fruit Juice)	1∼2g
1	LINGONBERRY EXTRACT	-PJ (Water-Soluble Powder)	5~10g
1		-P0.5 (Water-Soluble Powder)	50~100mg
1	LITCHI CEED EVTDACT	-P (Powder)	150~300mg
1	LITCHI SEED EXTRACT	-WSP (Water-Soluble Powder)	150~300mg
1		-P80- (Powder)	15~20mg
1	LUTEIN	-P40- (Powder)	30~40mg
		-L8 (Water-Soluble Emulsion) * post-ordered production	150∼200 mg
ii			60 100
	Toomg/ day	-20F (Oil)	60~100 mg
M	MAQUI BERRY EXTRACT *In the case of foods with function claims:	-20F (Oil) -P35 (Water-Soluble Powder)	60~100 mg 30~60mg

	Products	Grade	Recommende	d Dosage/day
M	MOUNTAIN CAVIAR EXTRACT	-P (Water-Soluble Powder)	200~	400mg
О		-P1 (Powder)	400~1	,000mg
		-P8 (Powder)	50~1	125mg
		-P10 (Powder)	40~1	100mg
		-P12 (Powder)	34~	84mg
	OCTACOSANOL	-P30 (Powder)	14~	34mg
		-P45 (Powder)	9~2	22mg
		-P60 (Powder)	7~17	7 mg
		-L0.5 (Emulsion)	800~2	2,000mg
		-PT (Powder)		
		-PCD (Powder)	Whitening:	Moisturizing:
	ORYZA CERAMIDE™	-WSP (Water-Soluble Powder)	30~50mg	20~40mg
	XIn the case of foods with function claims :	-L (Emulsion)	Whitening:	Moisturizing:
	PCD, WSP, PT Recommended Dosage: 40mg/day		300~500mg	200~400mg
		-L0.8 (Emulsion)	300~500mg 200~400mg Whitening: Moisturizing: 113~188mg 75~150mg 120~400mg 6.7~22mg	
			113~188mg	75~150mg
	ORYZA GABA™	-HC5 (Water-Soluble Powder)	120~	400mg
	**In the case of foods with function claims: HC90 Recommended Dosage: 13.7mg or 31mg or 111mg/day F95R Recommended Dosage: 12.9mg or 30mg or 106mg/day	-HC90 (Water-Soluble Powder)	6.7~	22mg
		-C (Water-Soluble Emulsion)	1.2~4g	
		-Germ-P (germ powder)	2.4	~8g
	ORYZA PEPTIDE	- P60 (Water-Soluble Powder)	500~1,000mg	Beauty: 100~200mg
	ORYZA PROTEIN TM	- P70 (Powder)	500~1	,000mg
		- P80 (Powder)	440~	880mg
	ORYZA POLYAMINE™	- P (Water-Soluble Powder)	50~1	100mg
		-P (Powder)	500)mg
	ORYZA STEROL	* post-ordered production -L (Emulsion)	500mg 	
		* post-ordered production		-
		- (Oil)		380mg
		- 90 (Oil)	42~1	100mg
	ORYZA TOCOTRIENOL™	- P15CD (Powder)	320~	750mg
		- P27CD (Powder)	140~	330mg
		- L10 (Emulsion)		860mg
P	PASSIONFLOWER EXTRACT	-P (Powder)	200	Omg
	1 MOTORI LOWEN ENTRACT	-WSP (Water-Soluble Powder)	600)mg
	PERILLA SEED EXTRACT	-P (Powder)	100~	150mg
	(Anti-allergic)	-WSP (Water-Soluble Powder)	100~	150mg
	※In the case of foods with function claims:	-L (Emulsion)	150~	225mg
	Oil Recommended Dosage: 5g or 10g/day	-Oil	lowering blood pressure $5\mathrm{g}$	Lowering LDL cholestrerol $10 { m g}$

	Products	Grade	Recommended Dosage/day
P	PERILLA SEED EXTRACT	-PO (Powder)	80~160mg
	(Anti-dental caries)	-LO (Liquid)	120~240mg
	POLYAMINE	-P (Water-Soluble Powder)	70mg
	PSORALEA CORYLIFOLIA	-3 (Oil)	35mg
	FRUIT EXTRACT	-P1 (Powder)	100mg
	PURPLE RICE EXTRACT	-P (Water-Soluble Powder)	200~400mg
	PURPLE TEA EXTRACT	-P (Powder)	100mg
	PURPLE LEA EXTRACT	-WSP (Water-Soluble Powder)	150mg
R	DED CINCED EVED ACT	-P (Powder)	15~20mg
	RED GINGER EXTRACT	-WSP (Water-Soluble Powder)	30~40mg
	RED RICE EXTRACT	-P (Powder)	50mg
	RED RICE EXTRACT	-WSP (Water-Soluble Powder)	250mg
	DECVEDATION	-P5 (Powder)	20~40mg
	RESVERATROL	-WSP0.5 (Water-Soluble Powder)	200~400 mg
S	SAFFRON EXTRACT(Safleep TM)	-P (Water-Soluble Powder)	22mg
	SAKURA EXTRACT	-P (Water-Soluble Powder)	50~150mg
		-P (Powder)	200~400mg
	SEABERRY EXTRACT	-WSP (Water-Soluble Powder)	400mg
		- FRUIT OIL	150~450mg
		- (Oil)	50 mg/intake
	SICHUAN PEPPER OIL	-P5 (Powder)	50∼100 mg∕intake
		-P10 (Powder)	25∼50 mg∕intake
	STRAWBERRY GUAVA	-P(Water-Soluble Powder)	100mg
	EXTRACT(FemBerry™)		
	STRAWBERRY SEED EXTRACT	-P (Powder)	40~80mg
T	TOMATO SEED EXTRACT	-P(Water-Soluble Powder)	200mg
	(LycoLift TM)		
	*In the case of foods with function claims:		
V	P Recommended Dosage: 200mg ∕ day VINE TEA EXTRACT(ResoVine™)	-P (Powder)	250mg
W		- P10 (Powder)	50~150mg
	WALNUT POLYPHENOL	- WSP10(Water-Soluble Powder)	50~150mg
		-P (Powder)	150mg
	WATERSHIELD EXTRACT	-WSP (Water-Soluble Powder)	150mg
	WHITE JELLY FUNGUS EXTRACT	-P (Water-Soluble Powder)	50~200mg
Y		-P (Powder)	200~300mg
	YUZU SEED EXTRACT	-WSP (Water-Soluble Powder)	800~1,200mg
L		(25.45.45.45.45.45.4	-, - ,-,-,-

APPENDIX 2. List of Specification

	Products	Grade	Standard Component
A		- (Oil)	DMM*20 μ g/g
	101111111111111111111111111111111111111		(*Dihydroxy-Methoxy-Methylflavan)
	AGUAJE EXTRACT	-P (Powder)	DMM*5 μ g/g
		-L (Emulsion)	DMM*5 μ g/g
		-P (Powder)	α -Lipoic Acid 98.0 %
	ALPHA LIPOIC ACID	-P80 (Powder)	α -Lipoic Acid 80.0 %
	ALPHA LIPOIC ACID	-WSP7(Water-Soluble Powder)	α -Lipoic Acid 7.0 %
		-L1 (Emulsion)	α -Lipoic Acid 10.0 %
		-5 (Oil)	Astaxanthin (Free) 5.0 %
	A COTTA NA NATITANA	-20 (Oil)	Astaxanthin (Free) 20.0 %
	ASTAXANTHIN	-P1 (Powder)	Astaxanthin (Free) 1.0 %
		-LS1 (Emulsion)	Astaxanthin (Free) 1.0 %
В	BIRD'S NEST EXTRACT	-P (Water-Soluble Powder)	Sialic Acid 1.5 %
		D (p. 1.)	Total Polymethoxyflavone 10.0 %
		-P (Powder)	5,7-Dimethoxyflavone 2.5 %
	BLACK GINGER EXTRACT	THOS. (Total Polymethoxyflavone 1.00 %
		-WSP (Water-Soluble Powder)	5,7-Dimethoxyflavone 0.25 %
		-EXTRACT (Water-Soluble Powder)	Glucoraphanin 5.0 %
			Sulforaphane 2.0 %
		-PS1 (Water-Soluble Powder)	Glucoraphanin 2.5 %
			Sulforaphane 1.0 %
	BROCCOLI SPROUT EXTRACT	-EX (Water-Soluble Powder)	Sulforaphane glucosinolate 13.0 %
		-BROCCOLI SPROUT POWDER	Glucoraphanin 3.0 %
			Sulforaphane 1.2 %
		-BROCCOLI POWDER	Glucoraphanin 500 ppm
			Sulforaphane 200 ppm
	BUCKWHEAT LEAF EXTRACT	-P (Powder)	Rutin 5.0 %
	BOCKWITEAT LEAF EATRACT	-WSP (Water-Soluble Powder)	Rutin 0.1 %
С		-P (Powder)	Theobromine 10.0 %
	COCOA EXTRACT		Polyphenols 20.0 %
	COCON EXTINCT	-WSP (Water-Soluble Powder)	Theobromine 0.1 %
			Polyphenols 0.2 %
	CHINESE CHIVE SEED EYTDACT	-P (Powder)	S-allyl-L-cysteine Min. 0.1 %
	CHINESE CHIVE SEED EXTRACT	-WSP (Water-Soluble Powder)	S-allyl-L-cysteine Min. 0.1 %
		- P25 (Water-Soluble Powder)	Echinacoside 25.0 %
	CISTANCHE TUBULOSA EXTRACT		Acteoside 9.0 %
			Phenylethanoid glycosides 50.0 %

	Products	Grade	Recommended Dosage/day
С		-P (Powder)	β -cryptoxanthin 1000 μ g/100g
	CITRUS UNSHIU EXTRACT		Hesperidin 0.3 %
	CITRUS UNSHIO EXTRACT	-L (Emulsion)	eta -cryptoxanthin 330 μ g/100g
			Hesperidin 0.10 %
		-P (Water-Soluble Powder)	Chlorogenic acid 24.0 %
	COFFEE BEAN EXTRACT	-r (water-soluble rowder)	Chlorogenic acids 45.0 %
		-WSP (Water-Soluble Powder)	Chlorogenic acids (9 peaks) 40.0 %
	COPRINO™ EXTRACT	- POWDER	Ergothioneine 0.3 %
	COPRING EXTRACT	- EXTRACT P0.5 (Water-Soluble Powder)	Ergothioneine 0.5 %
Е	EVENING DRIMDOGE EVED ACT	-P (Powder)	Polyphenols 60.0 %
	EVENING PRIMROSE EXTRACT	-WSPS(Water-Soluble Powder)	Polyphenols 50.0 %
	EVENING PRIMROSE EXTRACT	- PH (Powder)	Polyphenols 18.0 %
	(Anti-H.pylori)	-WSPH (Water-Soluble Powder)	Polyphenols 15.0 %
F		-P (Powder)	polyphenols 3.0 %
	FERMENTED RICE GERM EXTRACT	-WSP (Water-Soluble Powder)	polyphenols 0.4 %
		-5KW (Oil)	Fucoxanthin 5.0 %
	FLICOVANTELINA	-1KW (Oil)	Fucoxanthin 1.0 %
	FUCOXANTHIN	-P1KW (Powder)	Fucoxanthin 1.0 %
		-WSP0.1KW (Water-Soluble Powder)	Fucoxanthin 0.1 %
		-3 (Oil)	Fucoxanthin 3.0 %
	FucoRex TM	-1 (Oil)	Fucoxanthin 1.0 %
G	GAMMA ORYZANOL	-(Powder)	γ -Oryzanol 98.0 %
J	JAPANESE BUTTERBUR EXTRACT	-P (Powder)	Total polyphenols 1.0 %
		-WSP (Water-Soluble Powder)	Total polyphenols 1.0 %
K		-P (Powder)	Luteolin 10 %
	KIKU FLOWER EXTRACT	-WSP (Water-Soluble Powder)	Luteolin 0.1 %
		-P (Powder)	Polyphenols 2.0 %
	WHAT COLD DAMP & CA		Quercitrin 5.0 mg/100 g
	KIWI SEED EXTRACT	-WSP (Water-Soluble Powder)	Polyphenols 2.0 %
			Quercitrin 5.0 mg/100 g
	KRILL OIL(ISADA OIL)	-(Oil)	8-HEPE 0.10 %
	KUZU LACTIC ACID		
	BACTERIA(ImmnoRise Lactic	D (D1)	Viehle cell court 2 × 1012 -C.
	Acid Bacteria TM /SkinBarrier Lactic	-P (Powder)	Viable cell count 2×10^{12} cfu/g
	Acid Bacteria TM)		
L		-J (Concentrated Fruit Juice)	-
	LINGONBERRY EXTRACT	-PJ (Water-Soluble Powder)	-
		-P0.5 (Water-Soluble Powder)	Arbutin 0.50 %

	Products	Grade	Recommended Dosage/day
L	LITCHI SEED EXTRACT	-P (Powder)	Polyphenols 12.0 %
		-WSP (Water-Soluble Powder)	Polyphenols 12.0 %
		-P80 (Powder)	Lutein (free) 40.0 %
			lutein ester 80.0 %
		-P40 (Powder)	Lutein (free) 20.0 %
	LUTEIN		lutein ester 40.0 %
	LOTEIN	-L8 (Water-Soluble Emulsion)	Lutein (free) 4.0 %
		* post-ordered production	lutein ester 8.0 %
		-20FA (Oil)	Lutein (free) 20.0 %
			Zeaxanthin (free) 4.0 %
M		-P35 (Water-Soluble Powder)	Total anthocyanins 35.0%
	MAQUI BERRY EXTRACT	-1 55 (water-soluble rowder)	Total delphinidins 25.0%
		-J (Concentrated Fruit Juice)	-
	MOUNTAIN CAVIAR EXTRACT	-P (Water-Soluble Powder)	Momordin Ic 2.0 %
О		-P1 (Powder)	Octacosanol 1 .0%
		-P8 (Powder)	Octacosanol 8 .0%
	OCTACOSANOL	-P10 (Powder)	Octacosanol 10 .0%
		-P12 (Powder)	Octacosanol 12.0%
		-P30 (Powder)	Octacosanol 30 .0%
		-P45 (Powder)	Octacosanol 45 .0%
		-P60 (Powder)	Octacosanol 60.0%
		-L0.5 (Emulsion)	Octacosanol 0.5%
		-PT (Powder)	Ceramide (Glycosphingolipids)
			3.0 %
		-PCD (Powder)	Ceramide (Glycosphingolipids)
			3.0 %
	ORYZA CERAMIDE™	-WSP (Water-Soluble Powder)	Ceramide (Glycosphingolipids)
			3.0 %
		-L (Emulsion)	Ceramide (Glycosphingolipids)
			0.3%
		-L0.8 (Emulsion)	Ceramide (Glycosphingolipids)
			0.8 %
		-HC5 (Water-Soluble Powder)	γ -aminobutyric acid 5.0%
		-HC90 (Water-Soluble Powder)	γ -aminobutyric acid 90.0%
	ORYZA GABA™	-F95R (Water-Soluble Powder)	γ -aminobutyric acid 95%
		-C (Water-Soluble Emulsion)	γ -aminobutyric acid 500 mg/100 g
		Germ-P (germ powder)	γ -aminobutyric acid 250 mg/ 100 g

	Products	Grade	Recommended Dosage/day
О	ORYZA PEPTIDE	- P60 (Water-Soluble Powder)	Peptide 60.0 %
	ODWZA DDOTEINITM	- P70 (Powder)	Protein 70.0 %
	ORYZA PROTEIN™	- P80 (Powder)	Protein 80.0 %
	ORYZA POLYAMINE™	- P (Water-Soluble Powder)	Polyamine 0.2%
	ORYZA STEROL	-P (Powder) * post-ordered production	Sterol 90.0 %
	GKTZITOTZKOZ	-L (Emulsion) * post-ordered production	Sterol 3.0 %
		- (Oil)	Total tocopherols and tocotrienols
			Total tocotrienols 30.0 %
			Total tocotrienols 16.0 %
		- 90 (Oil)	Total tocopherols and tocotrienols
			Total tocotrienols 90.0 %
			Total tocotrienols 60.0 %
		- P15CD (Powder)	Total tocopherols and tocotrienols
	ORYZA TOCOTRIENOL TM		Total tocotrienols 15.0 %
			Total tocotrienols 8.0 %
		- P27CD (Powder)	Total tocopherols and tocotrienols
			Total tocotrienols 27.0 %
			Total tocotrienols 18.0 %
		- L10 (Emulsion)	Total tocopherols and tocotrienols
			Total tocotrienols 10.0 %
			Total tocotrienols 7.0 %
P		-P (Powder)	Total flavonoids 3.0 %
	PASSIONFLOWER EXTRACT	-WSP (Water-Soluble Powder)	Total flavonoids 1.0 %
		-P (Powder)	Polyphenols 3.0 %
			Certification Test Flavonoid
		-WSP (Water-Soluble Powder)	Polyphenols 3.0 %
	PERILLA SEED EXTRACT		Certification Test Flavonoid
	(Anti-allergic)	-L (Emulsion)	Polyphenols 2.0 %
			Certification Test Flavonoid
		-Oil	Alpha Linolenic Acid 55.0 %
	PERILLA SEED EXTRACT	-PO (Powder)	Polyphenols 3.0 %
	(Anti-dental caries)		Certification Test Flavonoid
	ŕ	-LOGC (Liquid)	Polyphenols 2.0 %
			Certification Test Flavonoid
	POLYAMINE	-P (Water-Soluble Powder)	Polyamine 0.15 %
	PSORALEA CORYLIFOLIA	-3 (Oil)	Bakuchiol 3.0 %
		-P1 (Powder)	
	FRUIT EXTRACT	-P1 (Powder)	Bakuchiol 1.0 %

	Products	Grade	Recommended Dosage/day
Р	PURPLE RICE EXTRACT	-P (Water-Soluble Powder)	Polyphenols 15.0 %
			Anthocyanins 5.0 %
		-P (Powder)	Polyphenols 30.0 %
			GHG* 3.0 %
	PURPLE TEA EXTRACT		(*1,2-di-O-galloyl-4,6-O-(S)-hexahydroxydiphenoyl-β- _D -glucose)
		-WSP (Water-Soluble Powder)	Polyphenols 10.0 %
			GHG* 2.0 %
R		-P (Powder)	[6]-gingerol and [6]-shogaol 6.0 %
			Tannin 1.5 %
			Certification Test 3R,5S-[6]-
			gingerdiol
	RED GINGER EXTRACT	-WSP (Water-Soluble Powder)	[6]-gingerol and [6]-shogaol 3.0 %
			Tannin 0.5 %
			Certification Test 3R,5S-[6]-
			gingerdiol
		-P (Powder)	Polyphenols 5 %
			Certification Test Proanthocyanins
	RED RICE EXTRACT	-WSP (Water-Soluble Powder)	Polyphenols 1 %
			Certification Test Proanthocyanins
		-P5 (Powder)	Polyphenols 25.0 %
	RESVERATROL		trans-Resveratrol 5.0 %
	RESVERATROL	-WSP0.5 (Water-Soluble Powder)	Polyphenols 2.5 %
			trans-Resveratrol 0.5 %
S	SAFFRON EXTRACT(Safleep™)	-P (Water-Soluble Powder)	Crocin 3.0 %
	CAVIDA EVEDACE	D (m all p l)	Caffeoyl Glucose 2.0
	SAKURA EXTRACT	-P (Water-Soluble Powder)	Quercetin Glucoside 0.05 %
		-P (Powder)	Ursolic acid 0.1 %
	CEADEDDY EYTDACT	-WSP (Water-Soluble Powder)	Isorhamnetin rhamnoside 0.1 %
	SEABERRY EXTRACT	- FRUIT OIL	Palmitoleic Acid (ω-7) 30.0 %
			Certification Test Carotenoids
		-5 (Oil)	Hydroxy sanshools 0.1 %
	SICHUAN PEPPER OIL	-P5 (Powder)	Hydroxy sanshools 0.1 %
		-P10 (Powder)	Hydroxy sanshools 0.2 %
	STRAWBERRY GUAVA	-P(Water-Soluble Powder)	Adenosine 5 μ g/g
	EXTRACT(FemBerry TM)		Glucosylceramide 50μ g/g
		-P (Powder)	Tiliroside 0.5 %
	STRAWBERRY SEED EXTRACT		Polyphenols 2.0 %
Т	TOMATO SEED EXTRACT	-P(Water-Soluble Powder)	Total lycoperosides 0.5 %
	(LycoLift™)		

	Products	Grade	Recommended Dosage/day
V		-P (Powder)	Ampelopsin (Dihydromyricetin)
	VINE TEA EXTRACT(ResoVine™)		50.0 %
W		- P10 (Powder)	Polyphenols 10.0 %
	WALNUT POLYPHENOL		Tellimagrandin I 0.1 %
	WALNOT FOLIFIIENOL	- WSP10(Water-Soluble Powder)	Polyphenols 10.0 %
			Certification Test Tellimagrandin I
		-P (Powder)	Polyphenols 5.0 %
	WATERSHIELD EXTRACT		Junsainoside A 0.01 %
			Polysaccharides 2.5 %
		-WSP (Water-Soluble Powder)	Polyphenols 5.0 %
			Junsainoside A 0.01 %
			Polysaccharides 2.5 %
	WHITE IELL VELINGUE EVEN A OT	-P (Water-Soluble Powder)	Total Saccharides 80.0 %
	WHITE JELLY FUNGUS EXTRACT		Glucuronic Acid 10.0 - 30.0 %
Y	YUZU SEED EXTRACT	-P (Powder)	Limonin 0.5 %
	TOZO SEED EATRACT	-WSP (Water-Soluble Powder)	Certification Test Limonin



List of Foods with Function Claims in Japan for Which Application Has been Accepted



Product Name OR		ORYZA CERAMIDE TM
	Ingredient Involved with the Functionality / Daily Intake	Rice-derived glucosyl ceramide /1.2mg
	Daily Intake (Product)	-PCD、-WSP、PT/40mg
	Applied Indication (Example)	It has been reported that rice-derived glucosyl ceramide prevents moisture evaporation from the skin surface and helps the skin to stay moist.
	Scientific Basis of Functionality	SR



Product Name ORYZA GABA™ EXTRACT		ORYZA GABA™ EXTRACT
	Ingredient Involved with the Functionality/Daily Intake	GABA (Gamma-aminobutyric acid) / 12.3mg
Daily Intake (Product) -HC90/13.7mg、-F95R/12.5mg		-HC90/13.7mg、-F95R/12.5mg
	Applied Indication (Example)	It has been reported that GABA has a function to lower blood pressure of people with high blood pressure.
	Scientific Basis of Functionality	SR



Product Name	ORYZA GABA™ EXTRACT
Ingredient Involved with the Functionality/Daily Intake	GABA (Gamma-aminobutyric acid) / 100mg
Daily Intake (Product)	-HC90/111mg、-F95R/106mg
Applied Indication (Example)	ABA improves quality of sleep (Depth of sleep, Clean awakening) Which were reported to have useful features is.
Scientific Basis of Functionality	SR





Product Name	ORYZA GABA™ EXTRACT
Ingredient Involved with the Functionality/Daily Intake	GABA (Gamma-aminobutyric acid) / 100mg
Daily Intake (Product)	-HC90/111mg、-F95R/106mg
Applied Indication (Example)	GABA inhibit the decrease in skin elasticity There are functions that help skin health which has been reported.
Scientific Basis of Functionality	SR



Product Name	ORYZA GABA™ EXTRACT
Ingredient Involved with the Functionality/Daily Intake	GABA (Gamma-aminobutyric acid) / 28mg
Daily Intake (Product)	-HC90/31mg, -F95R/30mg
Applied Indication (Example)	It has been reported that GABA has an effect of temporarily relieving mental stress caused by desk work.
Scientific Basis of Functionality	SR



Product Name	ORYZA GABA™ EXTRACT
Ingredient Involved with the Functionality / Daily Intake	GABA (Gamma-aminobutyric acid) / 100mg
Daily Intake (Product)	-HC90/111mg、-F95R/106mg
Applied Indication (Example)	It has been reported that GABA has an effect of temporarily relieving metal stress caused by desk work as well as relaxing effect.
Scientific Basis of Functionality	SR

Indication of stress-related functionality of ORYZA GABA® EXTRACT:

When the daily amount of the involved ingredient is 100 mg, both health claims "temporarily relieve mental stress" and "relaxing action" can be used.

When the daily amount of the involved ingredient is 28 mg however, only the health claim "temporarily relieve mental stress" can be used.



	Product Name	KIKU FLOWER EXTRACT
	Ingredient Involved with the Functionality/Daily Intake	Luteolin /10mg
	Daily Intake (Product)	-P/100mg
Lower on Uric	Applied Indication (Example)	It has been reported that luteolin has lowering effect of lowering on uric acid level people with relatively high uric acid level.
	Scientific Basis of Functionality	SR, Clinical testing

	Product Name	KIKU FLOWER EXTRACT
and the same	Ingredient Involved with the	Luteolin /20mg
C C C	Functionality/Daily Intake	Luteonii / Zonig
*	Daily Intake (Product)	-P/200mg
Reduce Eye Discomfort	Applied Indication (Example)	Luteolin has been reported to reduce eye discomfort caused by pollen, dust, and house dust.
	Scientific Basis of Functionality	SR

	Product Name	TOMATO SEED EXTRACT
	Ingredient Involved with the	Lycoperoside H /1mg
The same of the sa	Functionality/Daily Intake	Lycoperoside II / Img
1 2 2	Daily Intake (Product)	-P/200mg
Skin Elasticity	Applied Indication (Example)	Lycoperoside H has been reported to maintain skin elasticity and promote skin health.
	Scientific Basis of Functionality	SR



	Product Name	COFFEE BEAN EXTRACT
	Ingredient Involved with the Functionality/Daily Intake	Chlorogenic acids / 180mg
	Daily Intake (Product)	-WSP/450mg
Improvement of BMI by Reducing Visceral fat and Weight	Applied Indication (Example)	Chlorogenic acids from green coffee beans reduce body mass index (BMI) of people who with a higher BMI value, which indicates the degree of obesity.
	Scientific Basis of Functionality	SR

	Product Name	COFFEE BEAN EXTRACT
	Ingredient Involved with the Functionality/Daily Intake	Chlorogenic acids /120mg
0	Daily Intake (Product)	-WSP/300mg
Lower Blood Sugar Level After Meals	Applied Indication (Example)	"Lowering postprandial glucose Level in blood by chlorogenic acids from green coffee beans" has been reported.
	Scientific Basis of Functionality	SR

	Product Name	BROCCOLI SPROUT EXTRACT
are surrounded.	Ingredient Involved with the Functionality/Daily Intake	Sulforaphane glucosinolate /24mg
	Daily Intake (Product)	-EX/190mg
Improvement of Liver Function(Lower Blood ALT Level)	Applied Indication (Example)	Sulforaphane glucosinolate which could lower a slightly elevated ALT near to healthy region (a marked of liver function) value in blood of health middle aged and elderly" has been reported.
	Scientific Basis of Functionality	SR

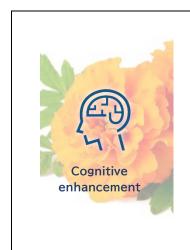


Death V	Product Name	MAQUI BERRY EXTRACT (MaquiBright®)
	Ingredient Involved with the Functionality/Daily Intake	Delphinidin-3,5-diglucoside /4mg
	Daily Intake (Product)	-P35/40mg
		Delphinidin-3,5-diglucoside supports the
000		deteriorating eye moisturization of healthy people
	Applied Indication	who do VDT work such as smartphones and video
Eye Moisturization Reducing Eye Fatigue	(Example)	games on daily basis, and causes temporary eye
		fatigue, temporary feeling and shoulder strain due to
		VDT work.
	Scientific Basis of Functionality	SR、Clinical testing

	Product Name	LUTEIN
NA	Ingredient Involved with the Functionality/Daily Intake	Lutein ester /40mg
	Daily Intake (Product)	-P80/50mg
Protect the Eye From Daily Photoirritations	Applied Indication (Example)	It has been reported that lutein ester has the ability to increase the concentration of pigments accumulated in the central part of the retina and protect the eye from daily photoirritations such as blue light.
	Scientific Basis of Functionality	SR

	Product Name	LUTEIN (FREE)
	Ingredient Involved with the	Lutein 10 mg、Zeaxanthin 2mg
A CONTRACTOR	Functionality/Daily Intake	
יקרע (Daily Intake (Product)	-20F/50mg
	Applied Indication	It has been reported that free lutein & zeaxanthin
	(Example)	have functions of working to increase the amount of
Improve visual functions		pigment in the macula of the eye, protecting against
Tunctions		light stress such as ultraviolet rays and blue light,
		improving contrast sensitivity (visual function that
		distinguishes color shades and reduces blurring and
		haze) and glare recovery (visual function that
		recovers from glare).
	Scientific Basis of Functionality	SR





Product Name	LUTEIN (FREE)	
Ingredient Involved with the	Lutein 10 mg、Zeaxanthin 2mg	
Functionality / Daily Intake		
Daily Intake (Product)	-20F/50mg	
Applied Indication	It has been reported that free lutein & zeaxanthin	
(Example)	are responsible for maintaining some of the	
	cognitive functions that decline with age: judgment	
	(the ability to respond and reason appropriately in	
	changing situations) and attention (the ability to	
	focus on one thing and the ability to pay attention to	
	multiple things).	
Scientific Basis of Functionality	SR	



Product Name	LUTEIN (FREE)	
Ingredient Involved with the	Lutein 20 mg、 Zeaxanthin 4.08mg	
Functionality/Daily Intake		
Daily Intake (Product)	-20F/100mg	
Applied Indication (Example)	It has been reported that free lutein & zeaxanthin help reduce eye fatigue. It also been reported to reduce temporary mental stress and improve sleep quality.	
Scientific Basis of Functionality	SR	



Product Name	BLACK GINGER EXTRACT
Ingredient Involved with the Functionality/Daily Intake	①Black ginger-derived 5,7-dimethoxy-flavone / 2.5mg ②Black ginger-derived 5-hydroxy-7-methoxyflavone / 0.5mg
Daily Intake (Product)	-P/100mg
Applied Indication (Example)	It has been reported that 5,7-dimethoxyflavone and 5-hydroxy-7-methoxyflavone derived from black ginger have effects to support and maintain the walking function which declined by age.
Scientific Basis of Functionality	SR、Clinical testing



Marie Care.	Product Name	PERILLA SEED Oil
	Ingredient Involved with the Functionality/Daily Intake	α -linolenic acid /2.6g
	Daily Intake (Product)	OIL/5g
Lower Blood Pressure	Applied Indication (Example)	It has been reported that α -linolenic acid has a function of lowering blood pressure in people with high blood pressure.
A Commence of the Commence of	Scientific Basis of Functionality	SR

1960 December	Product Name	PERILLA SEED Oil
	Ingredient Involved with the Functionality/Daily Intake	α -linolenic acid /5.49g
	Daily Intake (Product)	OIL/10g
Lower LDL	Applied Indication	α -Linolenic acid has been reported to lower the
Cholesterol Level	(Example)	level of bad (LDL) cholesterol in the blood.
	Scientific Basis of Functionality	SR

	Product Name	FUCOXANTHIN , FucoRex TM
	Ingredient Involved with the Functionality/Daily Intake	FUCOXANTHIN /3mg
0 97	Daily Intake (Product)	FUCOXANTHIN -5KW/60mg,
		FucoRex TM - 3/100mg
Improvement of BMI by Reducing Visceral fat and Weight	Applied Indication (Example)	Fucoxanthin which could help to lower BMI value by reducing visceral fat and body weight" has been reported. It is a food suitable for those who possess a higher BMI value.
	Scientific Basis of Functionality	SR



	Product Name	PASSIONFLOWER EXTRACT
	Ingredient Involved with the	Flavonoids from passionflower / 6 mg
	Functionality/Daily Intake	
000	Daily Intake (Product)	-P/200mg
Reduce temporary loss of vitality	Applied Indication (Example)	Flavonoids from passionflower have been reported to have the function of reducing the temporary loss of vitality (feeling full of energy, full of vitality, etc.) that occurs in daily life such as work and housework.
	Scientific Basis of Functionality	SR

	Product Name	RICE BRAN OIL
	Ingredient Involved with the	GAMMA ORYZANOL / 22.3mg
	Functionality/Daily Intake	
o C	Daily Intake (Product)	oil/14g
	Applied Indication	
Lower triglycerides and	(Example)	This product contains ingredients that have been
		reported to lower blood neutral fat and total
total cholesterol in the		cholesterol.
blood		
	Scientific Basis of Functionality	SR



Oryza's Rice Oils and Defatted Bran Products

<rice oil=""></rice>			
Product Name Features and Main Functions		Packaging	
RICE BRAN OIL (JAS product)	•Edible oil purified from rice bran by low temperature extraction (NEM) and NRM method. •Its features are a good flavor and taste, high stability against oxidation, and high stability at low temperatures. *NEM (New Extraction Method) *NRM (New Refining Method)	600 g 1500 g 1650 g 16.5 kg 181.5 kg Lorry	
RICE FRYING OIL (JAS product)	 Edible oil purified from rice bran by low temperature extraction (NEM) and NRM method. Its features are a refreshing taste and smooth texture. 	600 g 16.5 kg 181.5 kg Lorry	
ORYZA RICE GERM OIL	• Rice germ oil with high antioxidative property containing 1.2 to 1.5% gamma-oryzanol. • It provides a moisturizing effect, UV-ray absorbing effect, and tyrosinase inhibition.	16 kg	
RICE GERM OIL	 Liquid oil extracted from brown rice germ and the membrane layer of brown rice seeds by the NEM method and generated by the physical refining method. It contains many active ingredients such as gamma-oryzanol, vitamin E, and phytosterol which are present in germs and membrane layer of seeds in a sugar-coated form. It has an anti-oxidative effect as well as cholesterol-lowering, UV-ray absorption, and lipid peroxides reducing effect. 	16 kg	
ORYZA OIL-EX	• Functional edible oil extracted from rice bran and purified by the NEM and NRM methods. • It contains functional components specific in rice. → Tocopherol (vitamin E): 82 mg/100 g or more → Tocotrienol: 89 mg/100g or more → Gamma-oryzanol: 71 mg/100 g or more → Sterol: 1,071 mg/100 g or more • It has an anti-oxidative effect, lowers LDL-cholesterol, and suppresses generation of lipid peroxides.	16 kg	



<defatted (food)="" bran=""></defatted>			
Product Name	Features and Main Functions	Packaging	
ORYZA DRIM	 Special defatted bran containing large amounts of plant fibers, proteins, and sugars. Finely-ground and grain size adjusted. Water contents is less than 2%. Dietary fiber content: 33.2 g/100 g Suitable for weight control and constipation. 	15 kg	
ORYZA GERM-DLP	•Special defatted rice germ created by grinding		
ORYZA GERM-DLS	 Special defatted rice germ created by grinding carefully-selected NEM defatted rice germ. Its grain size is adjusted so that the pass through rate is 90% or more for a 200 mesh. Single-dose test, LD50: 2,000 mg/kg or more 	15 kg 20 kg	

<defatted (feed)="" bran=""></defatted>				
Product Name	Product Name Features and Main Functions Pac			
DEFATTED BRAN 12M	• Its feature is high storage efficiency (bridge formation does not occur). This is achieved as bran particles are fine and spherical because extruder processing is used in the rice bran low temperature extraction method (NEM). • As it does not go through harsh heat treatment, it contains high water-soluble protein content and phospholipid remains in the defatted bran, which makes it easy to digest and be absorbed. • It is suitable for animal feed, fertilizer, and culture media.	20 kg Contact us for smaller portions		
DEFATTED BRAN 25M	 Special defatted rice bran created by grinding carefully-selected NEM defatted rice bran and adjusting the grain size. It is suitable for culture media of various fungi, diluent for calibration substances for animal drugs, and diluent for premixing vitamins, etc. 	15 kg 20 kg		





Oryza's Rice Oils

Product Name	玄米油	THE HEALTHY ELD HEALTHY TABITY THE TABITY	June Ones
	ORYZA RICE BRAN OIL	ORYZA RICE Bran oil	ORYZA RICE OIL
Raw Material	Rice Bran Oil	Rice Bran Oil	Rice Bran Oil
Packaging	600 g x 20	1500 g x 10	1650 g x 6
Expiration Date	2 years	2 years	2 years



[Other]

For retailers and mass merchants, 600 g and 1650 g specification products as well as PB manufacture are available.

Please contact our sales personnel for production lot and other details.



List of Patent

Japanese Patent

No.	Products	Title of the invention	Patent No.
1	RICE BRAN OIL	Molding equipment used for pretreatment to extract crude	1192721
		oil from rice bran	(Expiration of validity period)
2	FERULIC ACID	Oil-solubilized skin rub for ferulic acid ester	1371867
		on solubilized skill rub for retaile dela coler	(Expiration of validity period)
3	RICE BRAN OIL	Filtration device	1480318
			(Expiration of validity period)
4	MELANOIDIN	Melanoidin-containing skin cosmetics	1401763
		0	(Expiration of validity period)
5	RICE BRAN OIL	Method for separating fatty acids from crude oils and fats	1998674
		1 0 7	(Expiration of validity period)
6	PEARL BARLEY	Hair nourishing agent and hair cosmetics	3496896
			(Expiration of validity period)
7	ORYZA GABA	Degreased food material enriched with γ -aminobutyric	2810993
		acid	(Expiration of validity period)
8	PERILLA SEED EXTRACT	Lipoxygenase inhibitor	4231559
		1 70	(Expiration of validity period)
9	PERILLA SEED EXTRACT	Antibacterial agent for oral cavity	4112730
			(Expiration of validity period)
10	EVENING PRIMROSE EXTRACT	Carbohydrate absorption inhibitor and its manufacturing	4873824
		method	(Expiration of validity period)
11	LITCHI SEED EXTRACT	Composite for beauty enhancement	3708036
			(Expiration of validity period)
12	ORYZA TOCOTRIENOL™	A technology of powder preparation which could be used in food	5306626
		material and cosmetic material	(Expiration of validity period)
13	FUCOIDAN	An immunological determination method of fucoidan content	5502298
		which used a fucoidan specific antibody	(Expiration of validity period)
14	BROCCOLI SPROUT EXTRACT	For external use on skin	3754646
			(Expiration of validity period)
15	RICE BRAN OIL	For external use on skin	3704498
			(Expiration of validity period)
16	LITCHI SEED EXTRACT	Elastase inhibitor	3953387
			(Expiration of validity period)
17	EVENING PRIMROSE EXTRACT	Anti-H.pylori composite	4541662
			(Expiration of validity period)
18	ALPHA LIPOIC ACID	Composite for beauty enhancement	4849792
19	YUZU SEED EXTRACT	Composite for skin improvement	5014569
0.0	COPPER DEAN EXTERNACTE		4499665
20	COFFEE BEAN EXTRACT	Composite for weight control	(Expiration of validity period)
21	JAPANESE BUTTERBUR EXTRACT	Anti-allergic agent	4822246
			4982052
22	LITCHI SEED EXTRACT	Composite for skin improvement	(Expiration of validity period)
23	KIWI SEED EXTRACT	Composite for beauty enhancement)	4925692
24	KIWI SEED EXTRACT	Anti-inflammatory agent and painkiller	5462430
		Agont and Farmance	
25	CHINESE CHIVE SEED EXTRACT	Immuno-stimulator	4925761 (Expiration of validity period)
26	RED GINGER EXTRACT	Anti-inflammatory agent and painkiller	5303697
27	BROCCOLI SPROUT EXTRACT	Sebum production promoter	5571280
21	DROCCOLI OI ROOT LATRACT	Sebum production promoter	3371200

*This list includes patents for preparations for topical use (cosmetics) as well.



No.	Products	Title of the invention	Patent No.	
28	LITCHI SEED EXTRACT, WALNUT			
	POLYPHENOL,STRAWBERRY SEED	Liquid composite, as well as beverages and cosmetics using	5525700	
	EXTRACT,LINGONBERRY EXTRACT,	it	3323700	
	WHITE JELLY FUNGUS EXTRACT			
29	STRAWBERRY SEED EXTRACT	Gene expression promoter for skin beautification, as well as moisturizing and skin beautifying composites using it	5996156	
30	LINGONBERRY EXTRACT	Pigmentation suppressor	5525716	
31	SAKURA EXTRACT	Nitric oxide production inhibitor	5783784	
32	POLYAMINE	Keratin expression promoter and nail beautifying composite using the same	5877980	
33	PURPLE RICE EXTRACT	ER(Endoplasmic reticulum) stress reducer	5916203	
34	WATERSHIELD EXTRACT	New compound and its use	6075025	
35	BIRD'S NEST EXTRACT	Tight junctions formation promoter	6358692	
36	MAQUI BERRY EXTRACT	Whitening agent	6144536	
37	ORYZA POLYAMINE	Ingredient of cosmetics for eyelashes and cosmetics for eyelashes using it	6192036	
38	WATERSHIELD EXTRACT	Composite for anti-aging of skin	6198463	
39	MAQUI BERRY EXTRACT	Dry eye prevention and treatment agent	6265500	
40	SAKURA EXTRACT	Suppression of AGE production	5878023	
41	SAKURA EXTRACT	Suppression of AGE production	5792844	
42	FERMENTED STRAWBERRY SEED PRODUCT	Lipid accumulation promoter in sebaceous gland cells	6433053	
43	BLACK GINGER EXTRACT	AMPK activator	6086953	
44	PURPLE TEA EXTRACT	Circadian rhythm adjustment agent	6227851 Expiration of duration of patent right	
45	KIKU FLOWER EXTRACT	Fibronectin expression promoting material	6452104	
46	STRAWBERRY SEED EXTRACT	Gene expression promoter for filaggrin and involucrin	6516246	
47	STRAWBERRY SEED EXTRACT	Gene expression promoter for filaggrin and involucrin	6635615	
48	NADESHIKO	Nrf2 related gene expression promoter	6529119	
49	NADESHIKO	Foam stabilizer and detergent	6635615	
50	BLACK CUMIN	Body odor component-reducing agent, as well as body odor-reducing agents using this component	6547050	
51	FERMENTED RICE GERM EXTRACT	To provide a method for producing β -sitosterol glucoside containing composition	6604806	
52	FERMENTED RICE GERM EXTRACT	The method of stigmasterol Containing Compositions	6584899	
53	FERMENTED RICE GERM EXTRACT	The method of glucosylceramide-containing composition	6579619	
54	FERMENTED RICE GERM EXTRACT	Producing method of composition containing ergosterol peroxide	6645791	
55	GAMMA ORYZANO	γ -Oryzanol soluble liquid composition	6639892	
56	ORYZA CERAMIDE TM	Glucosylceramide production and metabolic gene expression promotive agent used on the skin	6723737	
57	AGUAJE EXTRACT	Estrogen activity regulation and indefinite complaints ameliorative agent	6742537	

XThis list includes patents for preparations for topical use (cosmetics)



No.	Products	Title of the invention	Patent No.
58	BLACK GINGER EXTRACT	Energy activator for muscle cells	6751709
59	TOMATO SEED EXTRACT	ECM cycle normalizing agent	6799114
60	ORYZA PEPTIDE	N-acetyltransferase activator	6811455
61	BROCCOLI SPROUT EXTRACT	Carbonylation inhibitor	6902392
62	PASSIONFLOWER EXTRACT	Skin care material	6909569
63	PURPLE TEA EXTRACT	AMPK activator	6933781
64	CALLUNA VULGARIS	Carbonylation and saccharification inhibitor	6964393
65	BLACK GINGER EXTRACT	An inhibitor of TNF- α and IL-6 production and which could be used in muscle inflammation	6954960
66	cosmeHerbest™ JUNSAI	Hair care material	6945261
67	PASSIONFLOWER EXTRACT	Improving Life Rhythm	7007798
68	NADESHIKO	Prevention and improvement agent for obvious pore	7007788
69	TOMATO SEED EXTRACT	ECM cycle normalizing agent	7026181
70	FERMENTED RICE GERM EXTRACT	Muscle enhancer	7104193
71	SEABERRY EXTRACT	5α -reductor inhibitor	7237204
72	FUCOXANTHIN	Sarcopenia obesity preventive/improving agent	7246965
73	CosmeHerbest™ BLACK CUMIN	Stress odor component reducer	7297454

 $\ensuremath{\mathsf{X}}$ This list includes patents for preparations for topical use (cosmetics) as well.



International Patent

No.	Products	Title of the invention	Country	Patent No.
	RICE BRAN OIL	Preprocessing method for	USA	4384837 (Expiration of validity period)
1		extraction of oil from rice bran, as well as the processor using this	Taiwan	13898 (Expiration of validity period)
		method	Korea	16077 (Expiration of validity period)
2	PERILLA SEED EXTRACT	Lipoxygenase inhibiting agent	USA	US 6217875 (Expiration of validity period)
			USA	US 6932990 (Expiration of validity period)
3	EVENING PRIMROSE EXTRACT	Carbohydrate absorption inhibitor	EU	EP 1312374 (Expiration of validity period)
			China	CN 1268351 (Expiration of validity period)
	COFFEE BEAN EXTRACT		USA	US 8802164 (Expiration of validity period)
4		Composite for weight control	EU	EP 1674106 (Expiration of validity period)
			China	CN 1863543 (Expiration of validity period)
5	RED GINGER EXTRACT	Anti-inflammatory agent	USA	US 8017162
	SAKURA EXTRACT	Suppression of AGE production	USA	US 9381223
6			China	CN 102883733
	Florabella (USA)		Malaysia	MY173496
			EU	EP 2937091
	MAQUI BERRY EXTRACT		Canada	CA2895353
7		Dry eye prevention and treatment agent	Israel	239478
	Maqui <mark>Bright™</mark>		Korea	10-2070479
			USA	US11033566
8	PURPLE TEA EXTRACT PURPLE FORCE	AMPK activator	USA	US11478495



List of Papers

		Takara T., Yamamoto K., Suzuki N., Yamashita S., Iio S., Noguchi H., Kakinuma				
A		T., Baba. Yamamoto S., Morikawa T., Takeda S., Shimoda H.				
		Moriche Palm (Aguaje) Extractimproves indefinite complaints in Japanese				
	AGUAJE EXTRACT	females: arandomized,placebo-controlled,double-blind trial. Functional Foods in Health and Disease, 10(9), 379-396 (2020).				
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		Flexuosa (Moriche Palm). J food Biochem. 45(1), (2021)				
		下田博司、田中潤司、関あずさ、本田晴哉、赤荻誠一郎、小松原博文、鈴木信				
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		Toda K., Takeda S., Hitoe S., Nakamura S. Matsuda H., Shimoda H.				
В		Enhancement of energy production by black ginger extract containing				
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	EXTRACT	fitness performance and muscular endurance by improving inflammation and				
		energy metabolism. Helioyon 2:e00115(2016).				
		Toda K., Kohatsu M., Takeda S., Hitoe S., Shimizu N., Shimoda H. Enhancement				
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		blind randomized crossover trial. Integrative Mol.Med.3,628-634(2016).				
		Suzuki R., KohnoH., Sugie S., Okada T., Tanaka T. Preventive effects of podered				
	BROCCOLI SPROUT	broccoli sprout on azoxymethane-induced rat colonic aberrant crypt foci.				
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	BIRD S NEST EXTRACT	Photoaging in the Skin. Antioxidants. 10(9), 1452 (2021).				
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		Randomized, Double-Blind, Placebo-Controlled, Comparative Study. Front				
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 \bigstar : A study on Oryza products conducted by an outside party.



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E		▼不場孝素、頂田広一郎、不竹弘之、四比笛康弘、田田肩彦、釈他聖昭、示1 哲、高沢謙二 月見草エキス含有錠剤食品が食後血糖値に及ぼす影響と1日1回
Ľ		日、同八禄二 月兄早二十八百年延月長田が長後皿僧順に及ばり影音と1日1回 の長期摂取における空腹時血糖値の変動および安全性に関する検討
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	hypertriglyceridemia in mice via enhancement of fatty acid oxidation in the liver.			
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EXTRACT	induced cell damage and enhance expression of HAS2 and HAPB2 in adiponectin			
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Other	真山版 フェノール示人別初の皿			

 $[\]bigstar$: A study on Oryza products conducted by an outside party.





Products				Products	
1	BLACK GINGER EXTRACT-P	Food	31	ORYZA FERULIC ACID	Food
2	BLACK GINGER EXTRACT-PC	cosmetic	32	ORYZA FERULIX	cosmetic
3	BLACK GINGER EXTRACT-WSP	Food	33	FUCOXANTHIN-5KW	Food
4	BLACK GINGER EXTRACT-WSPC	cosmetic	34	FUCOXANTHIN-5CKW	cosmetic
5	ORYZA BROCCOLI SPROUT POWDER	Food	35	ORYZA GAMMA ORYZANOL	Food
6	ORYZA BROCOLI SPROUT EXTRACT	Food	36	ORYZAGAMMA TM -V	cosmetic
7	BROCOLI SPROUT EXTRACT-PC	cosmetic	37	GAMMA ORYZANOL-E	Food
8	BROCOLI SPROUT EXTRACT -PS1	Food	38	ORYZA GAMMAX®	Food
9	BROCOLI SPROUT EXTRACT -PSC1	cosmetic	39	KIKU FLOWER EXTRACT-P	Food
10	BROCCOLI SPROUT EXTRACT-EX	Food	40	KIKU FLOWER EXTRACT-PC	cosmetic
11	COCOA EXTRACT-P	Food	41	KIWI SEED EXTRACT-P	Food
12	COCOA EXTRACT-PC	cosmetic	42	KIWI SEED EXTRACT-PT	Food
13	COCOA EXTRACT-WSP	Food	43	KIWI SEED EXTRACT-PC	cosmetic
14	COCOA EXTRACT-WSPC	cosmetic	44	KIWI SEED EXTRACT-WSP	Food
15	CITRUS UNSHIU EXTRACT-P	Food	45	KIWI SEED EXTRACT-WSPC	cosmetic
16	CITRUS UNSHIU EXTRACT-PC	cosmetic	46	KIWI EXTRACT-P1	Food
17	CITRUS UNSHIU EXTRACT-LC	cosmetic	47	KRILL OIL	Food
18	COFFEE BEAN EXTRACT-P	Food	48	LINGONBERRY EXTRACT-J	Food
19	COFFEE BEAN EXTRACT-PCR	cosmetic	49	LITCHI SEED EXTRACT-P	Food
20	COFFEE BEAN EXTRACT-WSP	Food	50	LITCHI SEED EXTRACT-PC	cosmetic
21	COPRINO EXTRACT-P0.5	Food	51	LITCHI SEED EXTRACT-WSP	Food
22	COPRINO EXTRACT-PC0.5	cosmetic	52	LITCHI SEED EXTRACT-WSPC	cosmetic
23	EVENING PRIMROSE EXTRACT-P	Food	53	LITCHI EXTRACT-P	Food
24	EVENING PRIMROSE EXTRACT-PC	cosmetic	54	LUTEIN-P80A	Food
25	EVENING PRIMROSE EXTRACT-WSPS	Food	55	LUTEIN-PC80	cosmetic
26	EVENING PRIMROSE EXTRACT-WSPSC	cosmetic	56	LUTEIN-P80	Food
27	FERMENTED RICE GERM EXTRACT-P	Food	57	LUTEIN-P40	Food
28	FERMENTED RICE GERM EXTRACT-PC	cosmetic	58	LUTEIN-PC40	cosmetic
29	FERMENTED RICE GERM EXTRACT-WSP	Food	59	LUTEIN-20FA	Food
30	FERMENTED RICE GERM EXTRACT-WSPC	cosmetic	60	LUTEIN-P20FA	Food



Products			Products			
61	MAQUI BERRY EXTRACT-P35	Food	95	PERILLA SEED EXTRACT-LC	cosmetic	
62	MAQUI BERRY EXTRACT-PC35	cosmetic	96	PERILLA SEED EXTRACT-LOGC	cosmetic	
63	MaquiBright™	Food	97	POLYAMINE-P	Food	
64	MAQUI BERRY EXTRACT-LC	cosmetic	98	PSORALEACORYLIFOLIAFRUITEXTRACT (PhytoRetinol TM)-3	Food	
65	MAQUI BERRY EXTRACT-J	Food	99	PSORALEACORYLIFOLIAFRUITEXTRACT (PhytoRetinol TM)-3C	cosmetic	
66	MOUNTAIN CAVIAR EXTRACT-P	Food	100	PSORALEACORYLIFOLIAFRUITEXTRACT (PhytoRetinol™)-P1	Food	
67	ORYZA CERAMIDE™-PCD	Food	101	PSORALEACORYLIFOLIAFRUITEXTRACT(PhytoRetinol™)-PC1	cosmetic	
68	ORYZA CERAMIDE™-PC	cosmetic	102	PURPLE RICE EXTRACT-P	Food	
69	ORYZA CERAMIDE™-WSP	Food	103	PURPLE RICE EXTRACT-PC	cosmetic	
70	ORYZA CERAMIDE™-WSPC	cosmetic	104	PURPLE TEA EXTRACT-P	Food	
71	ORYZA CERAMIDE™-L0.8	Food	105	PURPLE TEA EXTRACT-PC	cosmetic	
72	ORYZA CERAMIDE™-LC0.8	cosmetic	106	PURPLE TEA EXTRACT-WSPS	Food	
73	ORYZA GABA™ GERM-P	Food	107	PURPLE TEA EXTRACT-WSPD	Food	
74	ORYZA GABA™ EXTRACT-C	Food*cosmetic	108	PURPLE TEA EXTRACT-WSPDT	Food	
75	ORYZA GABA™ EXTRACT-HC5	Food*cosmetic	109	PURPLE TEA EXTRACT-LC	cosmetic	
76	ORYZA GABA™ EXTRACT-F95	Food	110	RED GINGER EXTRACT-P	Food	
77	ORYZA GABA™ EXTRACT-F95R	Food	111	RED GINGER EXTRACT-WSP	Food	
78	ORYZA PEPTIDE™-P60	Food	112	RED GINGER EXTRACT-LC	cosmetic	
79	ORYZA PEPTIDE™ PC60	cosmetic	113	RED RICE EXTRACT-P	Food	
80	ORYZA POLYAMINE™-LC(BG30)	cosmetic	114	RED RICE EXTRACT-PC	cosmetic	
81	ORYZA POLYAMINE™-P	Food	115	RED RICE EXTRACT-WSP	Food	
82	ORYZA PROTEIN™ -P70	Food	116	RED RICE EXTRACT-WSPC	cosmetic	
83	ORYZA PROTEIN™-PC70	cosmetic	117	RESVERATROL-P5	Food	
84	ORYZA PERILLA SEED OIL	Food*cosmetic	118	RESVERATROL-PC5	cosmetic	
85	PASSIONFLOWER EXTRACT-P	Food	119	Safleep™ (SAFFRON EXTRACT)-P	Food	
86	PASSIONFLOWER EXTRACT-PC	cosmetic	120	SAKURA EXTRACT-P	Food	
87	PASSIONFLOWER EXTRACT-WSP	Food	121	SAKURA EXTRACT-PC	cosmetic	
88	PASSIONFLOWER EXTRACT-WSPC	cosmetic	122	SAKURA EXTRACT-LC	cosmetic	
89	PERILLA SEED EXTRACT-P	Food	123	SAKURA SYRUP	Food	
90	PERILLA SEED EXTRACT-PC	cosmetic	124	SEABERRY EXTRACT-P	Food	
91	PERILLA SEED EXTRACT-PO	Food	125	SEABERRY EXTRACT-PC	cosmetic	
92	PERILLA SEED EXTRACT-POC	cosmetic	126	SEABERRY EXTRACT-WSP	Food	
93	PERILLA SEED EXTRACT-WSP	Food	127	SEABERRY EXTRACT-WSPC	cosmetic	
94	PERILLA SEED EXTRACT-WSPC	cosmetic	128	SEABERRY FRUIT OIL	Food • cosmetic	



Products			Products		
129	FemBerry™ (STRAWBERRY GUAVA EXTRACT)-P	Food	152	ORYZA RICE GERM OIL	Food•cosmetic
130	STRAWBERRY SEED EXTRACT-P	Food	153	ORYZA OIL S-1	cosmetic
131	STRAWBERRY SEED EXTRACT-PC	cosmetic	154	ORYZA RICE BRAN OIL (こめサラダ油)	Food
132	LycoLift™(TOMATO SEED EXTRACT)-P	Food	155	ORYZA RICE BRAN OIL (オリザこめ油)	Food
133	LycoLift™(TOMATO SEED EXTRACT)-PC	cosmetic	156	ORYZA RICE BRAN OIL (オリザ白しめ油)	Food
134	LycoLift™(TOMATO SEED EXTRACT)-LC	cosmetic	157	ORYZA RICE BRAN OIL (こめ白絞油)	Food
135	TOMATO EXTRACT-P	Food	158	ORYZA RICE BRAN OIL (お米の糠からとれたサラダ油)	Food
136	ResoVine™(VINE TEA EXTRACT)-P	Food	159	ORYZA RICE BRAN OIL (お米のぬかからとれたサラダ油)	Food
137	ResoVine™(VINE TEA EXTRACT)-LC	cosmetic	160	ORYZA RICE BRAN OIL (玄米油)	Food
138	WATER SHIELD EXTRACT-P	Food	161	ORYZA RICE BRAN OIL (オリザの米油)	Food
139	WATER SHIELD EXTRACT-PC	cosmetic	162	ORYZA RICE BRAN OIL (こめ油)	Food
140	WATER SHIELD EXTRACT-WSP	Food	163	ORYZA DRIM V-50	Food
141	WATER SHIELD EXTRACT-WSPC	cosmetic	164	cosmeHerbest™ ORANGE	cosmetic
142	WHITE JELLY FUNGUS EXTRACT- P	Food	165	cosmeHerbest™ KIWI	cosmetic
143	WHITE JELLY FUNGUS EXTRACT- P C	cosmetic	166	cosmeHerbest™ SAKURA	cosmetic
144	YUZU SEED EXTRACT-P	Food	167	cosmeHerbest™ SEABERRY	cosmetic
145	YUZU SEED EXTRACT-PC	cosmetic	168	cosmeHerbest™ STRAWBERRY	cosmetic
146	YUZU SEED EXTRACT-WSP	Food	169	cosmeHerbest™ NADESHIKO	cosmetic
147	YUZU SEED EXTRACT-WSPC	cosmetic	170	cosmeHerbest TM YUZU	cosmetic
148	YUZU SEED EXTRACT-PS20	Food	171	cosmeHerbest™ LITCHI	cosmetic
149	Zanthoxylum Bungeanum Oil (SalivaMoist [™]) -5	Food	172	cosmeHerbest™ PASSIFLORA	cosmetic
150	Zanthoxylum Bungeanum Oil (SalivaMoist™) -P5	Food	173	cosmeHerbest™ JUNSAI	cosmetic
151	Zanthoxylum Bungeanum Oil (SalivaMoist™) -P10	Food	174	cosmeHerbest™ BLACK CUMIN	cosmetic

**All list of halal authorized products of Oryza were introduced in this chapter.

XPlease check with our staff regarding the HALAL status of these products outside Japan, before exporting them.



Guide to Contract Manufacturing

1. Contract Manufacturing operations

Food ingredients, food additives, health food ingredients, functional food ingredients, cosmetic ingredients, pharmaceutical ingredients/intermediates, chemical products, fertilizers, feed, etc.

2. Overview of the production process

General-purpose processing

Process	Device name, characteristics, etc.			
Extraction	Batch system/organic solvent, water			
Filtration,				
solid-liquid	Centrifuge, filter press, sparkler			
separation				
Heating, distillation,	Simple distillation, vacuum distillation			
concentration	r			
Cooling,				
refrigeration,	-10 °C to room temperature			
crystallization				
Column purification	Silica gel, ion exchange resin, and others			
Mixing, emulsified	Various tanks with stirrers attached, high-speed stirrer type			
dispersion	homogenizers			
Drying	Spray dryer, shelf-type hot air/vacuum dryer, vacuum tumble dryer,			
	vacuum freeze dryer			
Crushing,	Feather mill			
classification				
Mixing, granulation	V blender			
Subdivision, filling	Liquid, powder/ 5 kg~/ cans, cubitainers, drums etc.			

General oil extraction refinement

Solvent extraction, degumming, deoxidation, decolorization, deodorization, wintering

3. Features of Oryza's Contract Manufacturing production

Not only cold and hot water, but a wide variety of organic solvents can also be used.

n-hexane (food additive), fermented ethanol (99 %, 95 %), methanol etc.

24-hour production is possible.

Boiler, utilities such as electricity, shift personnel

From small-scale to mass production

From laboratory scale test production to 5-ton level production

Processing and integrated production other than the above are possible using the networks of partner companies.

Spray dryer, freeze dryer, tablets, capsules, cans, portions, cheer pack filling, etc.



4. Contract Manufacturing processing system

Centered around the Production Technical Development Team, we quickly carry out processes toward actual production using an integrated system.

5. Convenient access

By car: Approximately 30 minutes from Meishin Ichinomiya IC, approximately 10 minutes from Tokai Hokuriku Expressway Kisogawa IC

By train: Approximately 15 minutes on foot from JR Kisogawa station

Approximately 10 minutes on foot from Meitetsu Kuroda station

Other: Nagoya Port, Chubu International Airport, Komaki Airport

6. Production equipment list (There is related equipment other than the list below.)

Device name	Material	Specifications		
Reaction tank with stirrer	SUS	With jacket 200-7000 L To 120 °C		
Reaction tank with stirrer	GL	With jacket 3000 L		
Extraction tank	SUS	With jacket 2000 L 4 units, 3000 L 1 unit, others		
Emulsifier	SUS	50 L, 300 L Max revolutions 4300 rpm, high-pressure		
		emulsifier		
Basket-type centrifugal device	SUS,	Upper drain type 42 to 54-inch Various filters 3		
	RUBBER	units Lower drain type 1 unit		
Filter press, sparkler	SUS,	Filter chamber capacity 50 L to 200 L, all stainless steel		
	CAST	available		
	IRON			
Column centrifuge device	SUS	50 L 2 units, 500 L 1 unit		
(column tower)		Support silica gel, ion exchange resin, etc.		
Spray dryer	SUS	Moisture evaporation 25 kg/Hr, dry powder quantity		
		Approx. 5 kg/Hr		
Freeze dryer machine	SUS	Condensation quantity 80 kg/Batch, dry powder		
		quantity 24 kg/Batch		
Vacuum tumble dryer	SUS	1000 L, heating/cooling enabled, vacuum level 10 torr		
Shelf type hot air dryer	SUS (SS)	Counterflow type, parallel flow type, steam sterilization		
		type 250 to 900 L 3 units		
Shelf type vacuum dryer	SUS	190 L 1 unit, 470 L 2 units, vacuum level 5 torr 1 unit		
Grinder	SUS	Feather mill 3 units, cutter mill 2 units		
Powder mixing machine	SUS	V blender		
Deodorizing plant	SUS	Versatile batch system, consecutive processing system,		
		pure water vapor blowing device		
Wintering room	SUS	0 to 10 °C, filter equipment built in		
Concentrator	SUS	With jacket 200 to 5000 L, defoaming concentrator		

Feel free to consult with us on any matter.

Please contact us initially by telephone, FAX, or email.



Guide to Oryza Oil & Fat Chemical Co. Ltd.

Oryza Oil & Fat Chemical Co. Ltd, based on the concept of "contributing to the health and beauty of people", is engaged in R&D focusing on lifestyle-related diseases, aging, and cosmetic fields, from the position of preventive medicine and anti-aging.

We are preparing various types of functional food ingredients, using a large amount of food product information. Please feel free to consult us regarding all matters from product planning to OEM production.

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Please make use of the Oryza Oil & Fat Chemical Co. Ltd website

"Contents only for WEB members" are available on the Oryza website.

If you register as a member, you can download the complete Oryza product catalog (in

Japanese) .We hope you can make use of this.





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^{*}The content described in this catalog may be changed at any time.

