

Revised Content of Ver.13

New Patent (In Japan) :

- AGUAJE EXTTRACT: No.7537936 Regulator of estrogen activity
- TOMATO SEED EXTRACT (LycoLisft[™]): No.7624694 Th1/Th2 cytokine balance regulators and atopic dermatitis modifiers using them
- TOMATO SEED EXTRACT (LycoLisft[™]): No.7613901 Atopic dermatitis prevention and treatment agents

Others :

• SAKURA EXTRACT	P.51
China Food New Ingredient Approval (Sakura polyphenols)	
• MAQUI BERRY EXTRACT	P.35

Acquired individually certified health functional food in Korea China Food New Ingredient Approval (Maqui berry anthocyanins)



Revised date : May 10, 2025



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How to Use This Catalog

Food with function

ORYZA OIL & FAT CHEMICAL CO., LTD

"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

(Released in May 2014)

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Recommended dosage 100 mg/day (P)

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

Japanese patent No. 04520	14 (Fibroneculi expression promoting)	naterial)
	• Anti-gout	[Origin of raw material]
	(Double-blind comparative tudy	Flower buds or flowers of
	<i>between parallel groups)</i> It has been confirmed to possess	chrysanthemum
	uric acid lowering activity.	[Standard component]
A state of the second second	•Inhibits enzyme which synthesizes uric acid (ranthine	Luteolin
	oxidase) (in vitro)	[Safety test]
	•Improves symptoms of gout	(Chrysanthemum flower extract)
-P (powder)	(in vivo)	•Single-dose test
-WSP (water-soluble powder)	• Suppresses uric acid production (in vitro)	LD50: 2,000 mg/kg or more
(water soluble powder)	•Improves quality of sleep (in vivo)	•Repeated dose (28 days) test
	•Anti-wrinkle and skin	•Ames test
	beautifying effect (in vive)	•Five times (500 mg)dose intake
		test on human
	:	

Packing type

The basic packing is described below. If any irregular packing is used, it is described in this area.

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

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.

Halal authorized ingredient

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

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	ises		lergie lammat			Beauty	7
Appeal poir 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
FERMENTED RICE GERM EXTRACT	P. 25											
FERULIC ACID	P. 25	\bigcirc		\bigcirc						\bigcirc	\bigcirc	
GAMMA ORYZANOL ORYZA GAMMAX [®] (USA)	P. 27		\bigcirc	\bigcirc	\bigcirc		\bigcirc		\bigcirc	UV absorption (down) Tyrosinase activitity	\bigcirc	\bigcirc
OCTACOSANOL	P. 38				(up) Lipid metabolism	\bigcirc						
ORYZA CERAMIDE [™]	P. 39						Decrease itching Inhibition of degranulation			(down) Melanin production and tyrosinase activity	\bigcirc	(up) Dermal fibroblast growth
ORYZA GABA TM	P. 40	\bigcirc	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		\bigcirc		0		0		\bigcirc			\bigcirc
ORYZA PROTEIN TM	P. 41		\bigcirc		(up)Lipid metabolism							
ORYZA STEROL	P. 42		\bigcirc								\bigcirc	
ORYZA TOCOTRIENOL TM	P. 42		\bigcirc		(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				\bigcirc	(down) Melanin production and tyrosinase activity	(down)Elastase, hyaluronidase, collagenase activities	
RED RICE EXTRACT	P. 48		\bigcirc	\bigcirc							(down) Collagenase expression	
RICE BRAN OIL	P. 73		0		\bigcirc					\bigcirc	\bigcirc	
DEFATTED RICE BRAN [*]	P. 74				0							

XORYZA DRIM, ORYZA GERM-DLP, -DLS

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

	Bea	uty			An	ti-agi	ing		Others				
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 proliferat ion	(up)Phagocyotic capacity of macrophages	SOD-like and DPPH radical scavenging acbilities					
					\bigcirc	\bigcirc		0					
								Suppression of oil peroxidation	\bigcirc	\bigcirc	\bigcirc		
					\bigcirc		\bigcirc				0		(up) Endurance
0						(up)Apoptosis /prevention of colon cancer	Anti- influenza effect(BSG) Immunostimulation	\bigcirc		\bigcirc			
					0	Prevention of colon cancer			\bigcirc	\bigcirc	\bigcirc	0	
								SOD-like activity					Liver- protective effect
		0					Autophagy	\bigcirc					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		\bigcirc	0				Anti- fatigue
			Hair dye	Inhibition of retinal disorders/Retinal angiogenesis		0		SOD-like and DPPH radical scavenging acbilities					(down) Vitamin C oxidation
						\bigcirc		SOD-like and DPPH radical scavenging acbilities					(down) TG
			Skin cell activation					\bigcirc		0			
						\bigcirc							Relief constipation

PRODUCTS from OTHER PLANT SOURCES(1)

		Life	e style-	-relate	d disea	ises		lergie lammat			Beauty	7
Appeal poir 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
AGUAJE EXTRACT	P. 16		\bigcirc									
ALPHA-LIPOIC ACID	P. 16			\bigcirc	(down) Fat accumulation, appetite (up) Muscle strengthening					(down) Melanin production	\bigcirc	(up) Dermal fibroblast growth
ASTAXANTHIN	P. 17		0						\bigcirc		\bigcirc	
BIRD'S NEST EXTRACT	P. 18								\bigcirc		Moisturizing effect	(up) Dermal keratinocyte / fibroblast growth
BLACK GINGER EXTRACT Staminus [®] (USA)	P. 19	Blood pressure -lowering effect	\bigcirc	\bigcirc	\bigcirc		0	\bigcirc	\bigcirc			
BROCCOLI SPROUT EXTRACT	P. 20									(down) Melanin production/ Tyrosinase activity		
BUCKWHEAT LEAF EXTRACT	P. 20	\bigcirc	\bigcirc	\bigcirc	(up) Lipid metabolism							
COCOA EXTRACT	P. 21	\bigcirc	\bigcirc		(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	\bigcirc	Suppression of cholesterol		(up) Lipid metabolism	0				(down) Tyrosinase activity	(down) Elastase, hyaluronidase activities	
CITRUS UNSHIU EXTRACT	P. 22		\bigcirc		\bigcirc			\bigcirc		(down) Melanin production/ Tyrosinase activity	\bigcirc	(up) Dermal fibroblast growth
COFFEE BEAN EXTRACT	P. 23	\bigcirc		(down) α-glucosidase activities and sugar absorption	(down)Fat absorption (up)Lipolysis, fat decemposition							
COPRINO [™] EXTRACT	P. 23								(down) IL-6 production	(down) Melanin production/ Tyrosinase activity		(up) Hyaluronan synthase
EVENING PRIMROSE EXTRACT	P. 24		\bigcirc	(down) α -glucosidase, α -amylase, aldose reductase activities	(down) Sugar absorption					(down) Tyrosinase activity	\bigcirc	
EVENING PRIMROSE OIL	P. 24		(up) Cholesterol ester production	\bigcirc	0		Implrovement of GLA deficiency				0	
FUCOXANTHIN	P. 26			\bigcirc	0					(down) Tyrosinase activity/ Melanogenesis related genes expressions	(down) Elastase, collagenase, hyaluronidase activities	

\bigcirc : 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
								\bigcirc	\bigcirc				Female hormone like activity, Anti-androgen effect
			(up) Skin turnover	\bigcirc				<i>In vivo</i> antioxidant					
\bigcirc				\bigcirc	(down) Generation of ROS in brain cells			\bigcirc				Anti-H.pylori	
(up) Skin elasticity, Dermal collagen density			(up) Skin tight junction		\bigcirc		\bigcirc				\bigcirc		
			(up) Hair growth HGF, IGF-1, VEGF mRNA		Inhibition of phosphodiest erase 2 activity	\bigcirc	\bigcirc	SOD-like and DPPH radical scavenging acbilities	Promotion of blood peripheral circulation Improvement of capillary blood vessel shape			\bigcirc	Improvement of gout/Prevention of BPH/ Prevention of hair loss
		\bigcirc		\bigcirc		(up) PhaseⅡ 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	\bigcirc				
							(up) Testosterone secretion/ Immunity	\bigcirc			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	\bigcirc		(up) Endurance
						\bigcirc		SOD-like and DPPH radical scavenging acbilities					Inhibition of osteoporosis
				\bigcirc		Prevention of colon cancer		SOD-like and DPPH radical scavenging acbilities					
Anti-photo aging								\bigcirc					
						(up) Apoptosis		SOD-like and DPPH radical scavenging acbilities		\bigcirc		Inhibition of <i>H. pylori</i> fixation and urease activities Deodorization	
								\bigcirc		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

PRODUCTS from OTHER PLANT SOURCES (2)

		Life	e style [.]	-relate	d disea	ises	Al Inf	lergie lammat	s• ion		Beauty	τ
Appeal poir 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 [™]	P. 26			\bigcirc	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		\bigcirc		\bigcirc	\bigcirc	Improvement of itching in the eyes	Anti-gout. Inhibition of XOD,Uric acid excretive effect	\bigcirc	\bigcirc		
KIWI SEED EXTRACT	P. 30								(down) PG- production	(down) Melanin production /Tyrosinase activity	Clinical test in human	
KRILL OIL (ISADA OIL)	P. 31	\bigcirc	\bigcirc		Inhibition of fat accumulation and gain weight (PPAR activation)			\bigcirc				
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	\bigcirc								(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		\bigcirc	\bigcirc					0	(down) Melanin production		
MOUNTAIN CAVIAR EXTRACT (VegCaviar™)	P. 37				Lower Blood Sugar Level After Meals	\bigcirc						
PASSIONFLOWER EXTRACT	P. 43			\bigcirc								
PERILLA SEED EXTRACT	P. 44						(down) 5 and 12- lipoxygenase/ hisitamine release		0		\bigcirc	
PERILLA SEED OIL	P. 44 - P. 45		\bigcirc		0		(down) Leukotriene and histamine prodution				0	

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

	Bea	uty			An	ti-agi	ng		0thers			Antibacterial effect Deodorizing effect Anti-stress Relax Anti-fatigue Sleep Anti-fatigue Sleep	
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				\bigcirc		SOD-like and DPPH radical scavenging abilities					Inhibition of osteoporosis
				\bigcirc				\bigcirc					
Expression of Fillagrin, Type IV collagen		\bigcirc		\bigcirc	\bigcirc	\bigcirc		\bigcirc	\bigcirc			\bigcirc	Anti-oxidation, Cardioprotective, Neuroprotective
(up) Dermal fibroblast growth	(down) 5 α -reductase /Lipase activities		(up) Dermal fibroblast growth /Anti-under eye darkness					SOD-like and DPPH radical scavenging abilities					
					\bigcirc			\bigcirc	\bigcirc				
							\bigcirc						
							(UP)saliva IgA						
		\bigcirc						\bigcirc	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		\bigcirc					
				Anti-dry eye effect Inhibition of retinal photo-damage				\bigcirc					
Anti-photo aging		Suppresses AGEs production, AGEs degradative effec	(up)Hair growth,Cosme tical effect					\bigcirc					Inhibition of osteoporosis
							\bigcirc				Improvement of circadian rhythm, Improvement of quality of sleep		Enhance activity in daytime
								SOD -like activity		\bigcirc		Anti-cariogenic bacterium Anti-periodontal bacterium Deodorization	

PRODUCTS from OTHER PLANT SOURCES (3)

		Life	e style	-relate	d disea	ases		lergie lammat			Beauty	T
Appeal poi Product name	int	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		\bigcirc		\bigcirc		\bigcirc		\bigcirc			0
PSORALEA CORYLIFOLIA FRUIT EXTRACT	P. 46								\bigcirc		(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			\bigcirc	\bigcirc	\bigcirc		anti– arthropathia pain relief	\bigcirc			
RESVERATROL	P. 49	\bigcirc	\bigcirc	\bigcirc	Suppression of adipocyte differentiation		\bigcirc		\bigcirc	(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
SAKURA LACTIC ACID BACTERIA SAKULORA™	P. 52								Intestinal IgA production enhancement			
SEABERRY EXTRACT	P. 53										Inhibition of dryness stimulation	\bigcirc
SEABERRY OIL	P. 53		\bigcirc	\bigcirc	0					\bigcirc		
SICHUAN PEPPER OIL	P. 54											
STRAWBERRY GUAVA EXTRACT (FemBerry™)	P. 55										Skin moisture TEWL improvement	
STRAWBERRY SEED EXTRACT	P. 56			(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 EXTRACT LycoLift™	P. 57		\bigcirc						Suppression of IgE secretion Improvement of cytokine balance		Improvement of TEWL	(up)Metabolism of extracellular matrix in skin
VINE TEA EXTRACT ResoVine™	P. 58				Suppresses fat absorption&fat accumulation, Promotes fat metabolism	Protects liver						

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

	Bea	uty			An	ti-ag:	ing		Others				
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
		\bigcirc	(up) Keratin production				Autophagy	\bigcirc					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					\bigcirc	\bigcirc	SOD-like and DPPH radical scavenging abilities	Cardiopathy	\bigcirc			Protection of nerve cell
					0						\bigcirc	\bigcirc	hepato- protective
(up) Collagen lattice production		(down)AGE formation/ apoptosis,AGEs degradative effect	Hair care	Inhibition of retinal angiogenesis				\bigcirc					
Collagen, hyaluronic acid synthase gene expression promotion							IL-10,12 production promotion						Bowel movement improvement, intestinal serotonin and equol production improvement EMT (cause of menstrua discomfort symptoms) inhibition
		Maintain skin elasticity,improve glycation stress	Inhibition of skin irritation from air pollutants					Elimination of DPPH free radical					Improvement of BPH and urinary disturbance Inhibition of overactive bladder,
													Improvement of benign prostatic hyperplasia
												Inhibition of S.mutans and P.gingivalis	
			Hair growth						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					
(up)Collagen and elastin production Maintenance of extracellular matrix in skin								\bigcirc					

PRODUCTS from OTHER PLANT SOURCES (4)

		Life	e style-	-relate	d disea			lergie lammat			Beauty	τ
Appeal poir 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
WALNUT POLYPHENOL	P. 59	\bigcirc	\bigcirc	\bigcirc	\bigcirc	Suppression of fatty liver Hepatoprotection				(down) Melanin production		
WATERSHIELD EXTRACT	P. 60		(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. 61		0	(up) Glycolytic activity	(down)Fat absorption and accumulation/App etite						Moisturizing effect	
YUZU SEED EXTRACT	P. 62		Hypotrigl yceridemic Suppression of cholesterol	(up) Sugar metabolism	(up) Lipid metabolism					(down) Melanin production	0	(up) Dermal fibroblast growth

\bigcirc : literature citation

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

	Beauty				An	ti-ag:	ing		Others				
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
				\bigcirc		\bigcirc		\bigcirc					Inhibition of osteoporosis
(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			\bigcirc			Thermography		Anti-stress		

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

AGUAJE EXTRAC (Released in May 2018)	Recommended dosage	
	(Estrogen activity regulation and indefinite compla	aints ameliorative agent)
New! Japanese Patent No. 753	 •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 	[Origin of raw material] Fruits of aguaje [Standard component] DMM (Dihydroxy-Methoxy- Methylflavan) [Safety test] (Aguaje extract)
-Extract (oil) -P (powder) -L (emulsion) -Powder (post-ordered production)	(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)	 Single-dose test LD50: 2,000 mg/kg or more Ames test

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

(Released in October 2004)	Released in October 2004)			
Japanese Patent No. 4849792	(Composition for beauty enhancement)	50 to 100 mg/day (P)		
	 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 	[Origin of raw material] Alpha lipoic acid [Standard component] Alpha lipoic acid [Safety test] (-P) • Single-dose test (male mice)		
-P (powder) -P80 (powder) -WSP7(water-soluble Powder) -L1 (emulsion)	 (in vivo) Antioxidative action (in vitro) Prevents weight increase (in vivo) Promotes lipid metabolism (in vitro) Promotes skin turnover (in vitro) 	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)	Recommended dosage	
(Released in May 2000)	400 to 600 mg/day (P1)	
-5 (oil) -20 (oil) -P1 (powder) -LS1(emulsion)	 Prevents eye fatigue (Double-blind comparative study between parallel groups, from literature) 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) 	[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)

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

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



(Released in May 2012)

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

Staminus® (USA)

BLACK GINGER EXTRACT

Application for food with function claims accepted in Japan

Recommended dosage

100 mg/day (P)

•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
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Γ

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

BROCCOLI SPRO	Application for food with function claims accepted in Japan					
	UIEAINACI			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 act	ion	[Origi	in of raw material]		
	(Double-blind comparative	e study between	Germi	inated broccoli		
A MARTINE AND A MARTINE	<i>parallel groups)</i> Three-week ingestion of	the extract	Brocc	oli seeds(only -EX)		
	exhibited an effect of suppressing DNA damage caused by active oxygen and lipids oxidation in the body. •Anti-carbonylation effect (in vitro)	[Stand	dard component]			
			Sulfor	aphane		
			[Safet	y test]		
	 Suppresses colorectal 	(Broo	(Brocco	oli sprout extract)		
-EXTRACT 🔊	cancer (in vivo) • Suppresses breast cance		·Sing	le-dose test		
(water-soluble powder)	(in vivo)	1		0: 5,000 mg/kg or more		
-EXTRACT EX (water-soluble powder)	•Anti-H. pylori activity (in	ı vivo)		coli sprout extract-EX)		
-PS1 💁	•Inhibits tyrosinase activ	•	•Ame	-		
(water-soluble powder)	•Suppresses melanin pro	duction	2 1110			
-BROCCOLI SPROUT POWDER	(in vitro)					
-BROCCOLI POWDER						

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

BUCKWHEAT LE	AF EXTRACT	Recommended dosage
(Released in May 2003)	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

٦

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

(Released in April 2005)		Recommended dosage
		100 to 250 mg/day (P)
	•Suppresses fat accumulation	[Origin of raw material]
	<i>(Open test)</i> Four week intake exhibited a tendency to	Cocoa seed
	reduce weight, body fat percentage, BMI,	[Standard component]
A REAL PROPERTY AND A REAL	amount of fat, obesity level, as well as	Theobromine, polyphenol
	waist and hip sizes compared to baseline. It exhibited significant effects to reduce	[Safety test]
The second se	body weight, obesity level, and BMI.	(-P)
	• Prevents body weight gain (in vivo)	•Single-dose test
	• Inhibits fat accumulation (in vitro)	
-P (powder) 🖉	 Promotes fat burning 	LD50: 2,000 mg/kg or more
-WSP 🍱	(in vitro)	•Repeated dose (28 days) test
-	 Interferes with fat absorption 	•Chromosomal aberration test
(water-soluble powder)	(in vivo)	Chromosomar aberration test
	Antioxidative effect (in vitro)	

<A major stamina-enhancing ingredient! For revitalizing, anti-fatigue, and anti-stress measures! >

CHINESE CHIVE SEED EXTRACT (Released in September 2006) Recommended dosage • Japanese Patent No. 4925761 (Immunostimulator) (Expiration of validity period)					
	 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) 	[Origin of raw material] Allium Tuberosum seed [Standard component] S-allyl-L-cysteine [Safety test] (Allium Tuberosum seed extract) • Single-dose test			
-P (powder) -WSP (water-soluble powder) -Oil (post-ordered production)	 •Boosts immunity (in vivo) •Whitening effect (in vitro) 	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>

(Released in May 2007)	Recommended dosage	
(Released in May 2007)		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 testLD50: 26.4g/kg or more• Ames test• Micronucleus test• Teratogenicity test• 30 days chronic toxicity test

<To combat the aging of women! Ingredient for prevention of osteoporosis and whitening>

CITRUS UNSHIU EXTRACT

(Released in October 2004)		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 	[Origin of raw material] Citrus unshiu peel [Standard component] β-cryptoxanthin Hesperidin [Safety test] (-P)	
-P (powder) -L (emulsion)	(in vivo) • Antioxidative effect (in vitro) • Fibroblast proliferation (in vitro)	 Single-dose test LD50: 5,000 mg/kg or more (Citrus unshiu extract) Ames test 	



<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

(Released in October 2003)

Recommended dosage
300 or 450 mg/day(WSP)

Japanese Patent No. 4499665 (Composition for weight control)(Expiration of validity period)
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)

	 Fat accumulation suppression 	[Origin of raw material]
and the second sec	(Open test) After a four-week ingestion of the extract,	Coffee tree seed
CALLER	the weight, body fat ratio, impedance, fat	[Standard component]
TO SAN	amount, obesity level, waist size, and the thickness of abdominal subcutaneous fat	Chlorogenic acid, chlorogenic
and stable	in subjects showed a tendency of	acids
MONION I	descreasing as compared to baseline. (Double-blind comparative study between	[Safety test]
	parallel groups)	(Green coffee bean extract)
-P (water-soluble powder)	An eight-week ingestion test exhibited	•Single-dose test
-WSP 35	that the extract significantly improved the body weight, fat ratio, visceral fat, BMI,	LD50: 1,500 mg/kg or more
(water-soluble powder)	and arteriosclerotic index in subjects.	•Ames test
	•Suppresses fat absorption,	•28 days chronic toxicity test
	inhibits fat accumulation, promotes	
	fat decomposition and fat burning	
	(in vitro, in vivo)	
	Diabetes prevention (in vitro)	
	Antioxidative effect (in vitro)	

<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)	10 to 30 mg/day (P0.5)
 (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 after="" blood="" extract="" glucose="" in="" levels="" meals="" moderate="" primrose="" rise="" the="" to=""></evening>			
EVENING PRIME	ROSE EXTRACT		
*Health functional food r	naterial separately approved by Ko	rean	Recommended dosage
Food & Drug Administra	tion		100 to 300 mg/day (P)
(Released in September 2000)			100 to 500 mg/day (1)
•Japanese Patent No. 4873824	(Carbohydrate absorption inhibitor and its manufacturing r	nethod)(Ex	piration of validity period)
•US Patent No. US6932990 (C	arbohydrate absorption inhibitor)(Expiration	n of validi	ty period)
•Chinese Patent No. CN1268351 (Carbohydrate absorption inhibitor)(Expiration of validity period)			
• EP Patent No. EP1312374 (Carbohydrate absorption inhibitor)(Expiration of validity period)			
	•Controls blood glucose levels	[Origi	n of raw material]
	<i>(Double-blind single intake study)</i> In a sugar tolerance test, the extract was	Evenir	ng primrose seed
Toll the	confirmed to significantly suppress	[Stand	lard component]
	increase of blood glucose levels after meals.	Polypł	nenols
	•Action to inhibit glycolytic enzyme (in	[Safet	y test]
	vitro) • Aldose reductase inhibition	(P)	
	(in vitro)	•Singl	e-dose test
-P (powder)	• Suppresses increase of blood glucose levels (in vivo)	LD50): 5,000 mg/kg or more
-WSPS	• Tyrosinase inhibition (in vitro)	·Chron	mosomal aberration test
(water-soluble powder)		·Ames	s test
-OIL		• Mous	se micronucleus test

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

EVENING PRIMR (Anti- <i>H.pylori</i>)	OSE EXTRACT	Recommended dosage
(Released in October 2003)		90 to 120 mg/day (P)
• Japanese Fatent No. 4541002	 (Anti-H.pylori composition)(Expiration of val Anti-H.pylori effect (Open study) It has been confirmed to reduce H.pylori in the stomach. Inhibits the growth of H.pylori (in vitro) Urease inhibition (in vitro) Suppresses attachment of H.pylori (in vitro) 	[Origin of raw material] Evening primrose seed [Standard component] Polyphenol [Safety test] (PH) • Single-dose test
-PH (powder) -WSPH (water-soluble powder)	 Suppresses H.pylori colonization (in vitro) Eliminates H.pylori (in vivo) Anti-tumoractivity(in vivo) 	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*! >

(Released in September 2001) •Japanese Patent No. 6604806	CE GERM EXTRACT (To provide a method for producing β-sitosterol gl (The method of stigmasterol Containing	
•Japanese Patent No. 6579619	(The method of glucosylceramide-conta (Producing method of composition cont	ining composition)
-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) •Japanese Patent No. 1371867(Oil-solubilized skin rub for ferulic acid ester)(Exp	Recommended dosage -
-Ferulic Acid 💽	 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! A carotenoid from sea Algae with strong anti-oxidative activity>

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

F

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

FucoRex TM	Application for	food with function claims accepted in Japan
ruconex		Recommended dosage
(Released in May 2017)		100 mg/day (3)
-3 (oil) -1 (oil)	 Suppresses visceral fat accumulation (in vivo) Hepatoprotective effect (in vivo) Skin beautifying activity (in vivo) 	[Origin of raw material] Microalgae [Standard component] Fucoxanthin [Safety test] (Microalgae extract) • Single-dose test LD50: 1,000 mg/kg or more • Ames test

<"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) • Action to relieve postmenopausal [Origin of raw material] disorders and dysautonomia Rice bran oil (Multiple human clinical trials, [Standard component] from literature) Gamma-Oryzanol ·Cholesterol lowering effect (Multiple human clinical trials, from [Safety test] literature) ·Single-dose test Muscle-building LD50: 10,000mg/kg or more (Double-blind comparative study between parallel groups, from literature) ·180 days chronic toxicity test -Gamma-Oryzanol جالال • Antioxidative activity (in vitro) (Powder) •90 days chronic toxicity test • Prevents irritable bowel -GAMMAX (powder) <u>جالال</u> ·Teratogenicity test syndrome (in vivo) [Compliant with U.S. FDA GRAS] Anti-allergic effect(in vivo) ·Carcinogenicity test

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

JAPANESE BUTTERBUR EXTRACT

(Released in April 2004)

Recommended dosage

• Japanese Patent No. 4822246 (Anti-allergic agent)(Expiration of validity period)		
-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

(Released in May 2014)

Application for food with function claims accepted in Japan

Recommended dosage

100 mg ~ 200mg/day (P, WSP10)

•Japanese patent No. 6452104 (Fibronectin expression promoting material)		
	• Anti-gout	[Origin of raw material]
and the state of the	(Double-blind comparative study	Flower buds or flowers of
	between parallel groups) It has been confirmed to possess uric acid	chrysanthemum
	lowering activity.	[Standard component]
	• Anti-allergic effect (Double-blind comparative study	Luteolin
	between parallel groups)	[Safety test]
	Improves itching in the eyes • Inhibits enzyme which synthesizes	(Chrysanthemum flower extract)
-P (powder)	uric acid (xanthine	•Single-dose test
-WSP (water-soluble powder)	oxidase) (in vitro)	LD50: 2,000 mg/kg or more
-WSP10 (water-soluble powder)	•Improves symptoms of gout	•28 days chronic toxicity test
- w SI 10 (water-soluble powder)	(in vivo) • Suppresses uric acid production (in	•Ames test
	vitro)	•Five times (500 mg,
	•Uric acid excretive effect(in vivo)	1,000mg) dose intake test on
	• Improves quality of sleep (in vivo)	human
	•Anti-wrinkle and skin beautifying effect (in vitro)	

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

KIWI SEED EXT (Released in September 2005)	RACT	Recommended dosage 50 to 100 mg/day (P)
• Jananese Patent No. 49756	92 (Composition for skin improvement)	
•	· • • • • •	ш. А
•Japanese Patent No. 54624	30 (Anti-inflammatory agent and painki	
Contraction of the second	• Effect on sebum secretion (anti-	[Origin of raw material]
MA SA	acne)(Open study)	Kiwi seed
UNT	Inhibited 5α -reductase that generates DHT which is related to sebaceous	[Standard component]
- OL P	secretion and suppressed excessive	
40.4 . 70	secretion of sebum.	Quercitrin
CORREL	Anti-wrinkle action	Polyphenols
A REAL PROPERTY	<i>(Open study)</i> Effects observed included reduction of	[Safety test]
Sales a	wrinkles, normalization of skin pH and	(Kiwi seed extract)
for the second s	skin condition.	•Single-dose test
-P (powder) 🌁	Action to prevent dark	-
-WSP 🍜	pigmentation under eyes	LD50: 2,000 mg/kg or more
(water-soluble powder)	(Open study)	•Ames test
-OIL	The extract was confirmed to increase	(Oil)
	the brightness of skin surface around the eyes, suggesting that it can prevent	• Single-dose test
	dark pigmentation under eyes.	e
	•Inhibits <i>C. acnes</i> -derived lipase	LD50: 5,000mg/kg or more
	(in vitro)	
	• Induces the proliferation of	
	fibroblasts (in vitro)	
	• Tyrosinase inhibitory effect	
	(in vitro)	
	•Suppresses melanin	
	production (in vitro)	
	•Reduces pigmentation	
	(in vivo)	
	•Anti-inflammatory effect (in vitro)	



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

(Released in May 2018)		Recommended dosage
-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-HEPE [Safety test] (Isada oil) • Single-dose test LD50: 2,000 mg/kg or more • Ames test

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

Kuzu Lactic Acid 1	Bacteria	
(Released in November 2020)		Recommended dosage
	SkinBarrier Lactic Acid Bacteria [™]	
		Origin of raw material
*	• Skin care effect	Lactic Acid Bacteria (derived Kuzu)
	(Double-blind comparative study between	[Standard component]
	parallel groups)	Bacteria No: 2×10^{12} / g
1 Total	It has been confirmed that the TEWL	[Safety test]
	(cheek), saliva IgA, collagen score,	(SkinBarrier Lactic Acid
- Accal	and questionnaire (gloss, firmness,	Bacteria TM)
- or tog	dryness) were improved.	• Ames test
	•Moisturize the skin, improve barrier	• Human test
	function (in vivo)	50 mg/kg 6 weeks
	(Promote the protein expression of	•Single-dose test
-P (powder)	cornified envelope, improve TEWL)	LD50: 2,000 mg/kg or more
- (pen)		
	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 (<i>in vivo</i>)	

< 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. Supports the skin beauty with a wide range of beautifying functions>

LITCHI SEED EX (Released in November 2001)	TRACT	_	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. 498205.	 2 (Composition for skin improvement)(E • Effects to beautify the skin 		alidity period) f raw material]
	<i>(Open study)</i> It has been confirmed to improve the moisture and pH of the skin. • Collagen production effect <i>(in vitro)</i>	Litchi see [Standar o Polypheno	d component]
	•Collagenase inhibition (in vitro) •Elastase inhibition(in vitro) •Hyaluronidase inhibition	[Safety te (Litchi seed •Single-d	l extract) ose test
-P (powder) -WSP (water-soluble powder)	(in vitro) • Antioxidative effect(in vitro) • Whitening effect (in vitro, in vivo) • Diabetes prevention (in vitro, in vivo)	•28 days •Ames te	,000 mg/kg or more chronic toxicity test st somal aberration test

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

	Application for	food with f	unction claims accepted in Japan
LUTEIN			Recommended dosage
(Released in May 2002)			15 to 20 mg/day (P80)
			50 or 100mg/day (20F)
	• 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	Marigold [Standar lutein (ester (Only -20H	r d component]),Total carotenoids (ester)
-P80 (powder) -P40 (powder) -L8 (water-soluble emulsion, post-ordered production) -20F(oil)	cataract has been unknown.	[Safety t (-P80) • Single-o LD50: 5	



<For the treatment of dry eyes: A wild berry from the Patagonian wilderness in South America>

Μ

MAQUI BERRY E	XTRACT Application fo	r food with function claims accepted in Japan
	quiBright [™]	Recommended dosage
* Approved as an Individually Re *Approved as a New Food Raw M	cognized Functional Ingredient in South Ko Iaterial in China	rea 30~60 mg/day (P35)
-	0 (Dry eye prevention and treatment ag	,
	Dry eye prevention and treatment agent	
	95353 (Dry eye prevention and treatmer (Dry eye prevention and treatment ager	<u> </u>
	(Dry eye prevention and treatment agent of di	
	(Prevention and treatment agent of dry	• • /
	0 (Redness improving agent on the skin)	• ^
	MaquiBright"	[Origin of raw material]
	•Improve conditions of dry eye and	Maqui berry fruit
0 00	eyestrain (Double-blind comparative study between parallel groups) A test was carried out on healthy adult	[Standard component]
		Total anthocyanins
		Total delphinidins
	men and women involved in VDT work for four hours a day or longer	[Safety test]
	who feel dryness and strain in their	(Maqui berry extract)
-P35 (water-soluble powder)	eyes. As a result, ingestion of delphinidin 3,5-diglucoside (4	• Single-dose test
-J J	mg/day) significantly increased tear secretion	LD50: 2,000 mg/kg or more •Chromosomal aberration test
(concentrate fruit juice)	and improved "bothersame ocular	•Five times (300 mg)dosage
	symptoms" and "feeling of a foreign matter in the eye" before starting	intake test on human
	VDT work and relieved shoulder strain as compared to placebo.	•Ames test
	•Suppresses photodamage in	•90 days chronic toxicity test
	visual cells (in vitro)	
	•Improves dry eye	
	(in vitro, in vivo)	

< 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. 614453	6 (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) • Anti-inflammatory 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* ! For people who are worried about postprandial glucose spiking! >

(Released in October 2022)	AR EXTRACT VegCa	Recommended Dosage
	·Lowers postprandial blood sugar	[Origin of raw material]
	level	Fruits of Kochia scoparia (L.)
	 New! (Randomized, Double-blind, Placebo-controlled Crossover Trial) C_{max} (maximum blood sugar level) after glucose intake was significantly reduced compared to the placebo. (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 	<pre>【Standard component】 Momordin Ic 【Safety test】 (P) • Single-dose test LD50 : 2000 mg/kg or more • Ames test • Five times (1,000mg)dose</pre>
-P (water-soluble powder) 座	`	intake test on human

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

OCTACOSANOL		Recommended dosage
(Released in October 2000)		40 to 100 mg/day (P10)
	 Ability to generate energy and muscle growth (Multiple human clinical trials, from literature) The following effects have been confirmed. Enhances physical endurance, vitality, and strength Improves reflexes and sensitivity 	[Origin of raw material] Seed of rice, Gramineae [Standard component] Octacosanol [Safety test] • Single-dose test LD50: 2,000 mg/kg or more
 P1 (powder) P10 (powder) P30 (powder) P60 (powder) L0.5 (emulsion) 	 (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 	

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ORYZA CERAM	ORYZA CERAMIDE TM Application for food with function claims accepted in Jap	
(Released in September 1999)	(TYZ2)	Recommended dosage
(Refeased in September 1999)	CI yZa Ceramide™	20-60 mg/day (PCD,PT,WSP)
•Japanese Patent No. 6723'	737 (Glucosylceramide production and metabolic gene expression	on promotive agent used on the skin)
	•Moisturizing effect	[Origin of raw material]
1.211	(Double-blind comparative study between	Rice bran and rice germ
	<i>parallel groups)</i> It is expected to enhance skin barrier	[Standard component]
	function and provide a moisturizing	Glycosphingolipids
	effect by reconstructing ceramides, promoting the formation of cornified	[Safety test]
	envelopes, and enhancing the	(Rice extract)
	function of tight junctions in epidermis.	•Single-dose test
-PT (powder)	•Skin beautifying effect (improve	LD50: 5,000mg/kg or more
-PCD (powder)	acne and skin condition) through the use with kiwi seed extract (Open	•28 days chronic toxicity test
-WSP	study)	
(water-soluble powder)	• Improving cold symptoms and immunity score	
-WSP1 (water-soluble powder)	(Double-blind comparative study between	
-L (emulsion)	parallel groups)	
-L0.8 (emulsion)	• Barrier Enhancement (in vivo) • Whitening effect (in vitro)	
	•Reduces symptoms of	
	atopic dermatitis (in vivo)	
	•Anti-influenza effect(BSG)(in vivo)	
	New! Immunostimulatory effect (in	
	vitro)	

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

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

ORYZA GABA TM (Released in September 1996)	Application for	food with function claims accepted in Japan Recommended dosage 12.9 to 106 mg/day (F95R)
•Japanese Patent No. 28109	93 (Degreased food material enriched with γ -aminobutyric a	acid)(Expiration of validity period)
	•Tranquillizing effect	[Origin of raw material]
	(Double-blind comparative study	Rice germ
E STA	<i>between parallel groups)</i> It has been confirmed to enhance	[Standard component]
	parasympathetic nerve activities to	Gamma-aminobutyric acid
	ease tensions and provide a relaxing effect.	(GABA)
	 Suppresses blood 	[Safety test]
	pressure elevation (Double-blind comparative study	(-HC90, -Germ P)
	between parallel groups)	•Single-dose test
-HC5 (water-soluble powder)	It has been confirmed to suppress the activities of sympathetic nerves and	LD50: 2,000 mg/kg or more
-HC90(water-soluble Powder)	lower blood pressure by activating	(-HC5, -C)
,	GABA (B) receptors in peripheral	• Single-dose test
- C (water-soluble powder)	nerves and controlling the release of noradrenaline.	LD50: 5,000mg/kg or more
-Germ P (germ powder) 🛛 🖉	horudi chumie.	(-HC90)
- F95R(water-soluble Powder)		•Ames test

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

ORYZA PEPTIDE (Released in September 2009)	TM Cryza Peptide TM	Recommended dosage 500 to 1000 mg/day (P60)
•Japanese Patent No. 681145	5 (N-acetyltransferase activator)(Expiration of	of validity period)
-P60 (water-soluble powder)	 Weight-controlling action (Double-blind comparative study between parallel groups) Combination of ingestion of a beverage containing 1 gram of Oryza Peptide and light 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) 	[Origin of raw material] Rice [Standard component] Peptides [Safety test] (-P60) • Single-dose test LD50: 5,000mg/kg or more • Ames test
	• Liver-protective effect(in vitro) • Antioxidative effect(in vitro)	

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

ORYZA POLYAM (Released in May 2012)	INE TM Cryza Polyamine TM 36 (Ingredient of cosmetics for eyelashes and	Recommended dosage 50 to 100 mg/day (P)
-P (water-soluble powder)	 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

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<Allergen-free (Allergens 28 items in Japan), gluten-free, and non-GMO "ricederived protein">

ORYZA PROTEIN	TM Cryza	Recommended dosage
(Released in September 2009)	Protein ^w	440 to 880 mg/day (P80)
-P80(powder)	 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. 	[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)

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<100% rice-derived sterol>

(Released in September 1999)		Recommended dosage
		500 mg/day (P)
-P (powder) (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 TOCOTR (Released in September 1998) •Japanese Patent No. 5306626 (A technology of	IENOL TM	Recommended dosage 160 to 380 mg/day (oil) c material) (Expiration of validity period)
	 Cholesterol reducing effect (Multiple human clinical trials, from literature) It has been confirmed to act on liver cells to selectively lower LDL-cholesterol level. Improves Atherosclerosis	[Origin of raw material] Rice bran and rice germ [Standard component] Total Tocopherol Total Tocotrienol [Safety test] • Single-dose test
- (oil) -90 (oil) -P15CD (powder) -L10 (water-soluble emulsion)	 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) 	LD50: 5,000mg/kg or more

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



<Improve the circadian rhythm! A blessing of beautiful flowers required by busy people in modern life >

PASSIONFLOWER EXTRACT

Application for food with function claims accepted in Japan

(Released in October 2016)

Recommended dosage

200 mg/day (P)

Japanese Patent No. 6909569 (Skin care material) Japanese Patent No. 7007798 (Improving Life Rhythm)

-P (powder) 35	 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 	[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
-WSP (water-soluble powder)	(in vivo) • Antioxidative effect (in vitro)	 Ames test Micronucleus test Comet assay test Five times (1,000mg)dose intake test on human



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

PERILLA SEED E (Released in September 1997)	XTRACT (Anti-allergic)	Recommended dosage
	9 (Lipoxygenase inhibiting agent)(Expiration Lipoxygenase inhibiting agent)(Expiration of v	
	Selectively suppresses IgE (Open study) It has been confirmed to reduce allergic reactions by selectively suppressing IgE concentration which is directly involved in type I allergies. No adverse effects to reduce the immune system were observed. • Action to reduce aging odor (Open study)	[Origin of raw material] Perilla seed [Standard component] Polyphenols [Safety test] (-P) • Single-dose test
-P (powder) -WSP (water-soluble powder) -OIL	An effect against elders person's smell (aldehyde odor) has been confirmed. •Anti-allergic and anti- inflammatory effects (in vivo) •Inhibits 5-lipoxygenase and suppresses histamine release (in vitro)	LD50: 2,000 mg/kg or more •28 days chronic toxicity test

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

	XTRACT (Oral care)	Recommended dosage
(Released in September 1999)		80 to 160 mg/day (PO)
• Japanese Patent No. 411273	0 (Antibacterial agent for oral cavity)(E	Expiration of validity period)
-PO (powder)	 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 ! $>$	>
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	Application for foo	od with function claims accepted in Japan
PERILLA SEED O	IL	Recommended dosage
(Released in September 1997)		LDL cholesterol : 10 g/day
		High blood pressure : 5 g/day
a the states	•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>

POLYAMINE (Released in October 2011) •Japanese Patent No. 5877980 (Keratin expression promoter and nail beautifying composition using the same)		
-P (water-soluble powder)	 Action to improve nail conditions (Open) It has been confirmed to improve the shine and color of nails and to reduce vertical lines on nails. Promotes nail growth (in vivo) Promotes fibroblast growth (in vitro) Promotes collagen production (in vitro) *In addition, the ability to enhance hair growth, pregnancy, and life expectancy(autophagy activation), and protect from radiation. 	[Origin of raw material] Wheat germ [Standard component] Polyamine [Safety test] (Wheat germ extract) • Single-dose test LD50: 2,000 mg/kg or more • Ames test

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

PSORALEA COR EXTRACT (Phy	YLIFOLIA FRUIT toRetinol TM)	Recommended dosage
(Released in November 2020)		35mg⁄day (oil)
	• Improve Wrinkle (open test)	(Origin of raw material)
	Improvement in wrinkle area and	Fruits of Psoralea corylifolia
	depth.	[Standard component]
11200	•suppress the atrophy of fibroblast	Bakuchiol
	induced by UV-A (in vitro)	[Safety test]
	•Contract the Collagen gel and	(PhytoRetinol TM)
3.6.4	increase protein of integrin 1	· · Single-dose test
	(in vitro)	LD50: 2,000 mg/kg or more
- AGERS 1	•Promote mRNA expression of	• Ames test
	Fibrin 4 (in vitro)	Phototoxicity test (rats)
	•Promote protein expression of	500mg / kg
2 (ail)	Laminin 5 (in vitro)	Phototoxicity test (fibroblast)
-3 (oil) 🚱 -P1 (powder) 💁	•Inhibit hyaluronidase (in vitro)	

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

•Japanese Patent No. 5916200		Recommended dosage 200 to 400 mg/day (P)
-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	[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

(Released in October 2013)

Alluvia[®] (USA) PURPLE TEA PURPLE FORCE (USA)

Recommended dosage

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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)

• Japanese Patent No.7489216 (NO production promoter, explosive power improver for lower limb

muscles, and agent for reducing muscle damage caused by intensive exercise)

	B annage caused by intensive ex)
 -P (powder) S -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, LDL- 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) Suppresses AGEs production (in vitro) AGEs degradative effect(in vitro) Activate AMPK in muscle cells (in vitro) 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 	[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
	general index for measuring muscle damage, was decreased. Meanwhile,	

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

RED GINGER EX (Released in May 2006) •Japanese Patent No. 5303 •US patent: 8017162 (Anti-	697 (Anti-inflammatory agent and pai	Recommended dosage 15 to 20 mg/day (P) nkiller)
-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) Use the power of the pigment of red rice to fight against metabolic syndrome! >

RED RICE EXTRACT			Recommended dosage
(Released in November 2007)			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) 	Red rice [Standar Polypher [Safety t (Red rice • Single- LD50: 1 • Ames to (-P) • Intaking	eest] e extract) dose test 1,000mg/kg or more

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

RESVERATROL (Released in September 2007)		Recommended dosage 20 to 40 mg/day (P5)
-P5 (powder) -WSP0.5 (water-soluble powder)	 Anti-metabolic syndrome effect (Open study) A four-week ingestion of 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

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

SAFFRON EXTRACT		
Recommended dosage		
(Released in May 2023)		22 mg/day (P)
a sector	• Sleep quality improvement	[Origin of raw material]
A STREET	(Multiple human clinical trials)	saffron stigmas
	It has been confirmed to have	[Standard component]
	improving effects on sleep quality,	Crocin
	and maintaining effects on	[Safety test]
	motivation for things done.	(P)
	Anxiolytic effect	• Single-dose test
	(Double-blind comparative study	LD50 : 2000 mg/kg or more
-P (water-soluble powder)	<i>between parallel groups</i>)	• Ames test
	Ingestion of saffron extract	
	reduced anxiety symptoms.	
	• Non REM sleep extension (in	
	vivo)	

• 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 EXTRA	CT Florabella (USA)		
(Released in April 2010)		Recommended dosage	
*Approved as a New Food Raw	*Approved as a New Food Raw Material in China		
 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) Preventtion 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) 	[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 -SYRUI	· · · · · ·		

[New Product]

<Lactic acid bacteria isolated from "Sakura"! Not only good for Gut regulation, but also expected to have beauty benefits.>

Sakura Lactic acid bacteria 🥂 🦓			
(SAKULORA [™])	SAKULORA	Recommended dosage	
(Released in October 2024)	TH ST	50mg/day (P)	
	• Bowel movement improvement	[Origin of raw material]	
A Star V	(Single-blind, parallel-group comparative	Lactic acid bacteria (derived from	
	study)	cherry blossoms)	
	After 2 weeks of intake, the amount of	[Standard component]	
	bowel movements and stool shape	colony-forming units (CFU)	
TA CO	scores were significantly improved,	[Safety test]	
	and the number of bowel movements	(P)	
	and the feeling of residual stool also	• Single-dose test	
-P (powder)	improved.	LD50: 2,000 mg/kg or more	
-PD (powder)	• Immune activation (promotion of	• Ames test	
	IL-10 and IL-12) function (<i>in vitro</i>)		
	· Enhancement of intestinal IgA		
	production (<i>in vivo</i>)		
	• Enhancement of intestinal		
	serotonin production (in vivo)		
	• Promotion of collagen and		
	hyaluronic acid synthase gene		
	expression (<i>in vitro</i>)		
	• Promotion of equol production		
	(in vivo)		
	• EMT inhibition (in vitro)		

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

SEABERRY EXTRACT Recommended dosage			
(Released in May 2015)	(Released in May 2015)		
Japanese Patent No.7237204 (5α-reductor inhibitor)		
-P (powder) -VSP (water-soluble powder) -FRUIT OIL -FRUIT OIL	 Suppresses overactive bladder (Double-blind comparative study between parallel groups) Improved urinary problems by 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) Sa-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 TM) SalivaMoist ["] (Released in November 2020)			
		50~100 mg/day (-P5)	
	 Promote saliva secretion 	Origin of raw material	
A CONTRACTOR	(Open test)	Sichuan pepper rind	
	Promote saliva secretion	[Standard component]	
	(Compared intake of before and after by	Total hydroxy-sanshools	
	Saxon test)	[Safety test]	
	It was confirmed that the amount of	(Sichuan pepper Oil)	
	saliva was improved. The related	•Single-dose test	
	symptoms of oral cavity were	LD50: 1,000 mg or more	
	improved.	•Ames test	
-5 (oil) 🍜	• Activate TRP channel (in vitro)		
-P5 (podwer) 🐸	•Anti-bacterial activity against S.		
-P10 (podwer) 还	mutans and P. gingivalis (in vitro)		

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

STRAWBERRY GUAVA EXTRACT FemBerry			
(FemBerry TM) Recommended dosage			
(Released in October 2023)	100mg/day (P)		
	Platelet aggregation inhibition	[Origin of raw maerial]	
	(Placebo-controlled trial)	Fruits of strawberry guava	
	A single intake significantly reduced	[Standard component]	
	platelet aggregation rate.	Adenosine	
	• Body temperature recovery	Glucosylceramide	
	promotion	[Safety test]	
	(Placebo-controlled trial)	(P)	
AD LONG	A cold water stress test was conducted	• Single-dose test	
	30 minutes after ingestion, and it was	LD50 : 2,000 mg/kg or more	
	confirmed that it had an effect on	• Ames test	
	promoting recovery of skin surface		
-P (water-soluble powder) 💁	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)		
	New! Hair growth effect		

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

STRAWBERRY S (Released in May 2008)	EED EXTRACT	Recommended dosage
skin beautifying composition u •Japanese Patent No. 651624 •Japanese Patent No. 64330	56 (Gene expression promoter for skin beau using them) 46 (Gene expression promoter for filag 53 (Lipid accumulation promoter in se 15 (Lipid accumulation promoter in se	grin and involucrin) baceous 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



TOMATO SEED EXTRACT Application for food with function claims accepted in Japan			
	ycoLift"	Recommended dosage	
(LyCOLIT	200 mg/day (P)	
•Japanese Patent No. 67991	4 (ECM cycle normalizing agent)		
•Japanese Patent No. 702618	81(ECM cycle normalizing agent)		
New! Japanese Patent No.76	24694 (Th1/Th2 cytokine balance regu	llators and atopic dermatitis	
modifiers using them)			
New! Japanese Patent No.76	13901 (Atopic dermatitis prevention a	nd treatment agents)	
	• Maintain skin elasticity,	[Origin of raw material]	
	improve glycation stress	Tomato seed	
4.0	(Double-blind comparative study between parallel groups)	[Standard component]	
	After 8 weeks of intake, it was	Total Lycoperoside	
A BASSISS	confirmed that the decrease in skin	[Safety test]	
and the second second	elasticity was significantly	(Tomato seed extract)	
	suppressed and the glycation stress was also reduced.	• Single-dose test	
a standard and a standard and a standard and a standard a standard a standard a standard a standard a standard	•Improves the skin	LD50: 2,000 mg/kg or more	
-P (water-soluble powder)	elasticity and increases collagen	•Ames test	
	content		
	(Open test) A four-week intake significantly	•Five times (1,000mg)dose	
	increased the skin collagen score	intake test on human	
	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)		



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

	ACT "ResoVine"	Recommended dosage
(Released in November 2021)		250mg/day (P)
	• Suppresses fat absorption	[Origin of raw material]
and the second sec	(Double-blind comparative study between	Leaves of Vine tea
	parallel groups)	[Standard component]
	It has been confirmed that the visceral	Ampelopsin
	fat area and abdominal circumference	[Safety test]
	were decreased after 12 weeks intake.	(powder)
	(Single-blind crossover study)	Singer-dose test
	The increasing of serum triglyceride	LD50 : 2000 mg/kg or more
	was significantly suppressed after 2	• Ames test
	hours intake under high-fat diet, and	
and the second	the AUC of triglyceride was also	
-P (powder) 🕾	significantly reduced.	
-P (powder)	•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)	

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

(Released in September 2006)		Recommended dosage 50 to 150 mg/day (P10, WSP10)
	•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	[Origin of raw material] Walnut seed skin [Standard component] Tellimagrandin I Polyphenols [Safety test] (Walnut extract)
-P10 (powder) -WSP10 (water-soluble powder) -OIL	 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) 	 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! Prevent and reduce cellulite! >

WATERSHIELD EXTRACT Recommended dosage (Released in September 2012) 150 mg/day (P) •Japanese Patent No. 6075025 (New compound and its use) 150 mg/day (P)			
	 3 (Composition for anti-aging of skin) • 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 >

W

(Released in October 2007)	
(50 to 200 mg/day (P)
•Japanese Patent No. 5525700 (liquid composition as	s well as beverages and cosmetics using it)
 Suppresses hyper (Open study) Exhibited a tendency cholesterol, triglycer free fatty acids and t cholesterol. A tendency hyperlipidemia has be Action to activate e metabolize sugars (Interferes with fat (in vivo) Interferes with fat (in vivo) Lowers triglyceride cholesterol levels(in v Promotes bile acid (in vivo) Promotes the grow Lactobacillus and Bifidobacterium (in vitro) 	Fruiting body of white jelly funguside, as well as o increase HDLide, as well as the increase o increase HDLide, as well as o increase HDLide, as well as o increase HDLide, as well as o increase o increase o increase HDLide, as well as o increase o increase

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

YUZU SEED EXT	RACT	Recommended dosage
(Released in April 2005)		200 to 300 mg/day (P)
•Japanese Patent No. 5014569	(Composition for skin improvement)(Exp	piration of validity period)
 P (powder) WSP WSP 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
А		- (Oil)	100mg
	AGUAJE EXTRACT	-P (Powder)	330mg
		-L (Emulsion)	330mg
		-P (Powder)	50-100mg
	ALPHA LIPOIC ACID	-P80 (Powder)	60-120mg
	ALPHA LIPOIC ACID	-WSP7(Water-Soluble Powder)	700-1,400mg
		-L1 (Emulsion)	500-1,000mg
		- 5 (Oil)	80-120mg
		-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
	%In the case of foods with function claims :		500.1.500
	P Recommended Dosage: 100mg/day	-WSP (Water-Soluble Powder)	500-1,500mg
		-EXTRACT (Water-Soluble Powder)	90-180mg
	BROCCOLI SPROUT EXTRACT	-PS1 (Water-Soluble Powder)	180-360mg
	\gg In 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
		-P (Powder)	240-600mg
	BUCKWHEAT LEAF EXTRACT	-WSP (Water-Soluble Powder)	12-30g
С		-P (Powder)	100-250mg
	COCOA EXTRACT	-WSP (Water-Soluble Powder)	400-1,000mg
	CHINESE CHIVE SEED EXTRACT	-P (Powder)	100mg
		-WSP (Water-Soluble Powder)	100mg
	CISTANCHE TUBULOSA EXTRACT	- P25 (Water-Soluble Powder)	100-400mg
		-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 or450mg/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		-P (Powder)	100-300mg
	EVENING PRIMROSE EXTRACT	-WSPS(Water-Soluble Powder)	100-300mg
	EVENING PRIMROSE EXTRACT	- PH (Powder)	90-120mg
	(Anti-H.pylori)	-WSPH (Water-Soluble Powder)	180-240mg
F		-P (Powder)	200-500mg
	FERMENTED RICE GERM EXTRACT	-WSP (Water-Soluble Powder)	1.4-3.5g
		-5KW (Oil)	10-60mg
	FUCOXANTHIN %In the case of foods with function claims :	-1KW (Oil)	50-300mg
	5KW (oil) Recommended Dosage: 60mg/	-P1KW (Powder)	50-300mg
	day	-WSP0.1KW (Water-Soluble Powder)	500-3,000mg
	FucoRex TM	-3 (Oil)	100mg
	 ※In the case of foods with function claims : 3 (oil) Recommended Dosage: 100mg ∕ day 	-1 (Oil)	300mg
G	3 (oii) Recommended Dosage. Tooling/ day		Menopause : 10-600mg
	GAMMA ORYZANOL	- (Powder, Food Additive)	Dysautonomia : 130-140mg
			Hyperlipidemia / cholesterol : 50-800mg
J		-P (Powder)	250mg
2	JAPANESE BUTTERBUR EXTRACT	-WSP (Water-Soluble Powder)	250mg
K	KIKU FLOWER EXTRACT %In the case of foods with function claims : P Recommended Dosage: 100mg or 200mg/day	-P (Powder)	100mg
		-WSP10 (Water-Soluble Powder)	100mg
		-WSP (Water-Soluble Powder)	-
		-P (Powder)	50-100mg
	KIWI SEED EXTRACT	-WSP (Water-Soluble Powder)	50-100mg
	KRILL OIL(ISADA OIL)	- (Oil)	210mg
	KUZU LACTIC ACID BACTERIA(ImmnoRise Lactic Acid Bacteria TM /SkinBarrier Lactic Acid Bacteria TM)	-P (Powder)	50mg
L		-J(Concentrated Fruit Juice)	1-2g
	LINGONBERRY EXTRACT	-PJ (Water-Soluble Powder)	5-10g
		-P0.5 (Water-Soluble Powder)	50-100mg
		-P (Powder)	150-300mg
	LITCHI SEED EXTRACT	-WSP (Water-Soluble Powder)	150-300mg
		-P80- (Powder)	15-20mg
	LUTEIN	-P40- (Powder)	30-40mg
	※In the case of foods with function claims :P80 Recommended Dosage: 50mg/day20F Recommended Dosage: 50mg or	-L8 (Water-Soluble Emulsion) * post-ordered production	150-200 mg
	100mg/day	-20F (Oil)	60-100 mg
М	MAQUI BERRY EXTRACT	-P35 (Water-Soluble Powder)	30-60mg
	XIn the case of foods with function claims :	L	

	Products	Grade	Recommende	d Dosage⁄day
М	MOUNTAIN CAVIAR EXTRACT	-P (Water-Soluble Powder)	200-4	100mg
0	OCTACOSANOL	-P1 (Powder)	400-1	,000mg
		-P10 (Powder)	40-1	00mg
		-P30 (Powder)	14-3	34mg
		-P60 (Powder)	7-1	7mg
		-L0.5 (Emulsion)	800-2,000mg	
	ORYZA CERAMIDE TM		Whitening :	Moisturizing :
		-PT (Powder)		
		-PCD (Powder)	30-50mg	20-40mg
	XIn the case of foods with function claims :	-WSP (Water-Soluble Powder)		
	PCD, WSP, PT Recommended Dosage: 40mg/day	-WSP1(Water-Soluble Powder)	90-150mg	60-120mg
		-L (Emulsion)	300-500mg	200-400mg
		-L0.8 (Emulsion)	113-188mg	75-150mg
	ORYZA GABA TM	-HC5 (Water-Soluble Powder)	120-4	100mg
	*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	- P80 (Powder)	440-8	380mg
	ORYZA POLYAMINE TM	- P (Water-Soluble Powder)	50-100mg	
	ORYZA STEROL	-P (Powder)	500mg	
		* post-ordered production- (Oil)	160-380mg	
	ORYZA TOCOTRIENOL™	- 90 (Oil)		00mg
		- P15CD (Powder)		750mg
		- L10 (Emulsion)		360mg
Р	PASSIONFLOWER EXTRACT	-P (Powder)		0
		-WSP (Water-Soluble Powder)	200mg 600mg	
	PERILLA SEED EXTRACT	-P (Powder)	100-150mg	
	(Anti-allergic)	-WSP (Water-Soluble Powder)	100-150mg	
	<pre>%In the case of foods with function claims :</pre>	-Oil	lowering blood pressure	Lowering LDL cholestrerol
	Oil Recommended Dosage: 5g or 10g/day	-011	5g	010g
	PERILLA SEED EXTRACT		80-160mg	
	(Anti-dental caries)	-PO (Powder)		
	POLYAMINE	-P (Water-Soluble Powder)	70	mg
	PSORALEA CORYLIFOLIA	-3 (Oil)	35mg	
	FRUIT EXTRACT	-P1 (Powder)	100mg	

	Products	Grade	Recommended Dosage/day
Р	PURPLE RICE EXTRACT	-P (Water-Soluble Powder)	200-400mg
		-P (Powder)	100mg
	PURPLE TEA EXTRACT	-WSP (Water-Soluble Powder)	150mg
R	DED CINCED EVTRACT	-P (Powder)	15-20mg
	RED GINGER EXTRACT	-WSP (Water-Soluble Powder)	30-40mg
		-P (Powder)	50mg
	RED RICE EXTRACT	-WSP (Water-Soluble Powder)	250mg
	DECVEDATIO	-P5 (Powder)	20-40mg
	RESVERATROL	-WSP0.5 (Water-Soluble Powder)	200-400mg
S	SAFFRON EXTRACT(Safleep TM)	-P (Water-Soluble Powder)	22mg
	SAKURA EXTRACT	-P (Water-Soluble Powder)	50-150mg
	SAKURA LACTIC ACID	-P (Powder)	50mg
	BACTERIA (SAKULORA TM)	-PD (Powder)	-
	SEABERRY EXTRACT	-P (Powder)	200-400mg
		-WSP (Water-Soluble Powder)	400mg
		- FRUIT OIL	150-450mg
	SICHUAN PEPPER OIL	- (Oil)	50mg/intake
		-P5 (Powder)	50-100mg/intake
		-P10 (Powder)	25-50mg⁄intake
	STRAWBERRY GUAVA	-P(Water-Soluble Powder)	100mg
	EXTRACT(FemBerry™)		
	STRAWBERRY SEED EXTRACT	-P (Powder)	40-80mg
Г	TOMATO SEED EXTRACT	-P(Water-Soluble Powder)	200mg
	(LycoLift™)		
	%In the case of foods with function claims : P Recommended Dosage: 200mg∕day		
V	VINE TEA EXTRACT	-P (Powder)	250mg
	(ResoVine TM)		0
W	WALNUT POLYPHENOL	- P10 (Powder)	50-150mg
		- WSP10(Water-Soluble Powder)	50-150mg
	WATERSHIELD EXTRACT	-P (Powder)	150mg
		-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

APPENDIX 2. List of Specification

	Products	Grade	Standard Component
А		- (Oil)	DMM*20 µg/g
	AGUAJE EXTRACT		(*Dihydroxy-Methoxy-Methylflavan)
		-P (Powder)	DMM*5 µg/g
		-L (Emulsion)	DMM*5 <i>µ</i> g/g
		-P (Powder)	α -Lipoic Acid 98.0 %
		-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 %
		-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 %
			Total Polymethoxyflavone 10.0 %
		-P (Powder)	5,7-Dimethoxyflavone 2.5 %
	BLACK GINGER EXTRACT		Total Polymethoxyflavone 1.00 %
		-WSP (Water-Soluble Powder)	5,7-Dimethoxyflavone 0.25 %
		-EXTRACT (Water-Soluble Powder)	Glucoraphanin 5.0 %
			Sulforaphane 2.0 %
	BROCCOLI SPROUT EXTRACT	-PS1 (Water-Soluble Powder)	Glucoraphanin 2.5 %
			Sulforaphane 1.0 %
		-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 %
		-WSP (Water-Soluble Powder)	Rutin 0.1 %
С		-P (Powder)	Theobromine 10.0 %
	COCOA EXTRACT		Polyphenols 20.0 %
		-WSP (Water-Soluble Powder)	Theobromine 0.1 %
			Polyphenols 0.2 %
	CHINESE CHIVE SEED EXTRACT	-P (Powder)	S-allyl-L-cysteine Min. 0.1 %
		-WSP (Water-Soluble Powder)	S-allyl-L-cysteine Min. 0.1 %
	CISTANCHE TUBULOSA EXTRACT	- P25 (Water-Soluble Powder)	Echinacoside 25.0 %
			Acteoside 9.0 %
			Phenylethanoid glycosides 50.0 %

	Products	Grade	Standard Component
С		-P (Powder)	β -cryptoxanthin 1000 μ g/100g
	CITRUS UNSHIU EXTRACT		Hesperidin 0.3 %
		-L (Emulsion)	eta -cryptoxanthin 330 $\mu{ m g}/100{ m g}$
			Hesperidin 0.10 %
		-P (Water-Soluble Powder)	Chlorogenic acid 24.0 %
	COFFEE BEAN EXTRACT		Chlorogenic acids 45.0 %
		-WSP (Water-Soluble Powder)	Chlorogenic acids (9 peaks) 40.0 %
	COPRINO™ EXTRACT	- POWDER	Ergothioneine 0.3 %
		- EXTRACT P0.5 (Water-Soluble Powder)	Ergothioneine 0.5 %
Е	EVENING PRIMROSE EXTRACT	-P (Powder)	Polyphenols 60.0 %
	EVENING FRIMROSE 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	FERMENTED RICE GERM EXTRACT	-P (Powder)	polyphenols 3.0 %
	FERMENTED RICE GERM EATRACT	-WSP (Water-Soluble Powder)	polyphenols 0.4 %
		-5KW (Oil)	Fucoxanthin 5.0 %
	FLICOVANTILIN	-1KW (Oil)	Fucoxanthin 1.0 %
	FUCOXANTHIN	-P1KW (Powder)	Fucoxanthin 1.0 %
		-WSP0.1KW (Water-Soluble Powder)	Fucoxanthin 0.1 %
	FucoRex™	-3 (Oil)	Fucoxanthin 3.0 %
		-1 (Oil)	Fucoxanthin 1.0 %
G	GAMMA ORYZANOL	-(Powder)	γ -Oryzanol 98.0 %
J		-P (Powder)	Total polyphenols 1.0 %
	JAPANESE BUTTERBUR EXTRACT	-WSP (Water-Soluble Powder)	Total polyphenols 1.0 %
Κ	KIKU FLOWER EXTRACT	-P (Powder)	Luteolin 10 %
		-WSP10 (Water-Soluble Powder)	Luteolin 10 %
		- WSP (Water-Soluble Powder)	Luteolin 0.1 %
	KIWI SEED EXTRACT	-P (Powder)	Polyphenols 2.0 %
			Quercitrin 5.0 mg/100 g
		-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 Acid Bacteria TM /SkinBarrier Lactic Acid Bacteria TM)	-P (Powder)	Viable cell count 2×10^{12} cfu/g

	Products	Grade	Standard Component	
L		-J (Concentrated Fruit Juice)	-	
	LINGONBERRY EXTRACT	-PJ (Water-Soluble Powder)	-	
		-P0.5 (Water-Soluble Powder)	Arbutin 0.50 %	
		-P (Powder)	Polyphenols 12.0 %	
	LITCHI SEED EXTRACT	-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 %	
		-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 %	
М		-P35 (Water-Soluble Powder)	Total anthocyanins 35.0%	
	MAQUI BERRY EXTRACT		Total delphinidins 25.0%	
		-J (Concentrated Fruit Juice)	-	
	MOUNTAIN CAVIAR EXTRACT	-P (Water-Soluble Powder)	Momordin Ic 2.0 %	
Ο	OCTACOSANOL	-P1 (Powder)	Octacosanol 1 .0%	
		-P10 (Powder)	Octacosanol 10 .0%	
		-P30 (Powder)	Octacosanol 30 .0%	
		-P60 (Powder)	Octacosanol 60.0%	
		-L0.5 (Emulsion)	Octacosanol 0.5%	
	ORYZA CERAMIDE™	-PT (Powder)	Ceramide (Glycosphingolipids) 3.0 %	
		-PCD (Powder)	Ceramide (Glycosphingolipids) 3.0 %	
		-WSP1 (Water-Soluble Powder)	Ceramide (Glycosphingolipids) 1.0 %	
		-WSP (Water-Soluble Powder)	Ceramide (Glycosphingolipids) 3.0 %	
		-L (Emulsion)	Ceramide (Glycosphingolipids) 0.3%	
		-L0.8 (Emulsion)	Ceramide (Glycosphingolipids) 0.8 %	
	ORYZA GABA™	-HC5 (Water-Soluble Powder)	γ -aminobutyric acid 5.0%	
		-HC90 (Water-Soluble Powder)	γ -aminobutyric acid 90.0%	
		-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	
	ORYZA PEPTIDE	- P60 (Water-Soluble Powder)	Peptide 60.0 %	
	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 %	

Products		Grade	Standard Component	
0		- (Oil)	Total tocopherols and tocotrienols	
			30.0 %	
			Total tocotrienols 16.0 %	
		- 90 (Oil)	Total tocopherols and tocotrienols	
			90.0 %	
	ORYZA TOCOTRIENOL™		Total tocotrienols 60.0 %	
		- P15CD (Powder)	Total tocopherols and tocotrienols	
			15.0 %	
			Total tocotrienols 8.0 %	
		- L10 (Emulsion)	Total tocopherols and tocotrienols	
			10.0 %	
			Total tocotrienols 7.0 %	
Р	PASSIONFLOWER EXTRACT	-P (Powder)	Total flavonoids 3.0 %	
		-WSP (Water-Soluble Powder)	Total flavonoids 1.0 %	
	PERILLA SEED EXTRACT (Anti-allergic)	-P (Powder)	Polyphenols 3.0 %	
			Certification Test Flavonoid	
		-WSP (Water-Soluble Powder)	Polyphenols 3.0 %	
			Certification Test Flavonoid	
		-Oil	Alpha Linolenic Acid 55.0 %	
	PERILLA SEED EXTRACT	-PO (Powder)	Polyphenols 3.0 %	
	(Anti-dental caries)		Certification Test Flavonoid	
	POLYAMINE	-P (Water-Soluble Powder)	Polyamine 0.15 %	
	PSORALEA CORYLIFOLIA	-3 (Oil)	Bakuchiol 3.0 %	
	FRUIT EXTRACT	-P1 (Powder)	Bakuchiol 1.0 %	
	PURPLE RICE EXTRACT	-P (Water-Soluble Powder)	Polyphenols 15.0 %	
			Anthocyanins 5.0 %	
	PURPLE TEA EXTRACT	-P (Powder)	Polyphenols 30.0 %	
			GHG* 3.0 %	
			(*1,2-di-O-galloyl-4,6-O-(S)-hexahydroxydiphenoyl- β - _D -glucose)	
		-WSP (Water-Soluble Powder)	Polyphenols 10.0 %	
			GHG* 2.0 %	

	Products	Grade	Standard Component
R		-P (Powder)	[6]-gingerol and [6]-shogaol 6.0 %
			Tannin 1.5 %
			Certification Test 3R,5S-[6]-
	RED GINGER EXTRACT		gingerdiol
	KED GINGER EATRACT	-WSP (Water-Soluble Powder)	[6]-gingerol and [6]-shogaol 3.0 %
			Tannin 0.5 %
			Certification Test 3R,5S-[6]-
			gingerdiol
		-P (Powder)	Polyphenols 5 %
	DED DICE EVTDACT		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 %
	RESVERATIOL	-WSP0.5 (Water-Soluble Powder)	Polyphenols 2.5 %
			trans-Resveratrol 0.5 %
S	SAFFRON EXTRACT(Safleep [™])	-P (Water-Soluble Powder)	Crocin 3.0 %
	SAKURA EXTRACT	-P (Water-Soluble Powder)	Caffeoyl Glucose 2.0
		-1 (water-Soluble Fowder)	Quercetin Glucoside 0.05 %
	SAKURA LACTIC ACID	-P (Powder)	Count 1×10^{12} cfu/g
	BACTERIA (SAKULORA TM)	-PD (Powder)	Count 1×10^{11} cfu/g
	SEABERRY EXTRACT	-P (Powder)	Ursolic acid 0.1 %
		-WSP (Water-Soluble Powder)	Isorhamnetin rhamnoside 0.1 %
		- FRUIT OIL	Palmitoleic Acid (<i>w</i> -7) 30.0 %
			Certification Test Carotenoids
	SICHUAN PEPPER OIL	-5 (Oil)	Hydroxy sanshools 0.1 %
		-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™)		Glucosylceramide 50 μ g/g
	STRAWBERRY SEED EXTRACT	-P (Powder)	Tiliroside 0.5 %
	STRAWDERRI SEED EATRACT		Polyphenols 2.0 %
Т	TOMATO SEED EXTRACT	-P(Water-Soluble Powder)	Total lycoperosides 0.5 %
	(LycoLift™)		
V	VINE TEA EXTRACT(ResoVine™)	-P (Powder)	Ampelopsin (Dihydromyricetin)
			50.0 %

Products		Grade	Standard Component
W		- P10 (Powder)	Polyphenols 10.0 %
	WALNUT DOLYDUENOL		Tellimagrandin I 0.1 %
	WALNUT POLYPHENOL	- WSP10(Water-Soluble Powder)	Polyphenols 10.0 %
			Certification Test Tellimagrandin I
	WATERSHIELD EXTRACT	-P (Powder)	Polyphenols 5.0 %
			Junsainoside A 0.01 %
			Polysaccharides 2.5 %
		-WSP (Water-Soluble Powder)	Polyphenols 5.0 %
			Junsainoside A 0.01 %
			Polysaccharides 2.5 %
	WHITE JELLY FUNGUS EXTRACT	-P (Water-Soluble Powder)	Total Saccharides 80.0 %
			Glucuronic Acid 10.0 - 30.0 %
Y		-P (Powder)	Limonin 0.5 %
	YUZU SEED EXTRACT	-WSP (Water-Soluble Powder)	Certification Test Limonin

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

Oryza OIL & FAT CHEMICAL CO., LTD

Product Name ORYZA CERAMIDETM Ingredient Involved with the Rice-derived glucosyl ceramide /1.8mg Functionality / Daily Intake -PCD、-WSP、PT/60mg Daily Intake (Product) It has been reported that for those who are **Applied Indication** concerned about dry skin, rice-derived glucosyl (Example) ceramide prevents moisture evaporation from the **Skin Moisturization** skin surface and helps the skin to stay moist. Scientific Basis of Functionality SR

a constant of a state of a	Product Name	ORYZA CERAMIDE TM
	Ingredient Involved with the Functionality / Daily Intake	Rice-derived glucosyl ceramide /1.2mg
	Daily Intake (Product)	-PCD、-WSP、PT/40mg
0 VX		It has been reported that for those who tend to have
	Applied Indication (Example)	dry skin, rice-derived glucosylceramide prevents
A MARKET AND A MARKET		moisture evaporation from the skin (cheeks), and
Skin Moisturization		increases the barrier function (moisturizing power)
		of the skin (cheeks).
	Scientific Basis of Functionality	SR

	Product Name	ORYZA CERAMIDE TM
	Ingredient Involved with the Functionality / Daily Intake	Rice-derived glucosyl ceramide /0.6mg
	Daily Intake (Product)	-PCD、-WSP、PT/20mg
Skin Moisturization	Applied Indication (Example)	It has been reported that rice-derived glucosylceramide makes it difficult for skin to lose moisture and increases the skin's barrier function (moisturizing power) for those who are concerned about dry skin.
Scientific Basis of Functional	Scientific Basis of Functionality	SR

	Product Name	BROCCOLI SPROUT EXTRACT
astronomit bury	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

ar and the same	Product Name	ORYZA GABA TM EXTRACT
Carl Carl Carl Carl Carl Carl Carl Carl	Ingredient Involved with the Functionality / Daily Intake	GABA (Gamma-aminobutyric acid) / 100mg
	Daily Intake (Product)	-HC90/111mg、-F95R/106mg
Quality of Sleep	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

CARLES A SIL	Product Name	ORYZA GABA TM EXTRACT
	Ingredient Involved with the Functionality / Daily Intake	GABA (Gamma-aminobutyric acid) / 12.3mg
	Daily Intake (Product)	-HC90/13.7mg、-F95R/12.5mg
Lower Blood Pressure	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

CARLO AND D	Product Name	ORYZA GABA TM EXTRACT
300	Ingredient Involved with the Functionality / Daily Intake	GABA (Gamma-aminobutyric acid) / 100mg
	Daily Intake (Product)	-HC90/111mg、-F95R/106mg
Skin Elasticity	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

ALLES STATE	Product Name	ORYZA GABA TM EXTRACT
and a second second	Ingredient Involved with the Functionality / Daily Intake	GABA (Gamma-aminobutyric acid) / 28mg
101	Daily Intake (Product)	-HC90/31mg、-F95R/30mg
Relieving Mental Stress	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 TM EXTRACT
and the second	Ingredient Involved with the Functionality / Daily Intake	GABA (Gamma-aminobutyric acid) / 100mg
	Daily Intake (Product)	-HC90/111mg、-F95R/106mg
Relieving Mental Stress & Relaxing	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

STATISTICS AND D	Product Name	ORYZA GABA TM EXTRACT
	Ingredient Involved with the	GABA (Gamma-aminobutyric acid) / 100mg
	Functionality / Daily Intake	
W	Daily Intake (Product)	-HC90/111mg、-F95R/106mg
Maintaining muscle mass	Applied Indication (Example)	GABA has been reported to have the ability to maintain muscle mass, which decreases as middle- aged and elderly people age, through daily physical activity.
	Scientific Basis of	SR
	Functionality	

	Product Name	KIKU FLOWER EXTRACT
	Ingredient Involved with the Functionality / Daily Intake	Luteolin /10mg
	Daily Intake (Product)	-P, -WSP10/100mg
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 second s	Ingredient Involved with the	Luteolin /20mg
t t 🤛 🔐 🖉	Functionality / Daily Intake	Luteonii / Zonig
	Daily Intake (Product)	-P, -WSP10/200mg
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 (LycoLift™)
1	Ingredient Involved with the	Lycoperoside H /1mg
Jac -	Functionality / Daily Intake	Lycoperoside II / Inig
1 4 1	Daily Intake (Product)	-P/200mg
Skin Elasticity	Applied Indication (Example)	Lycoperoside H has been reported to maintain skin elasticity and promote skin health.
· Carlostering	Scientific Basis of Functionality	SR

a cro	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
0	Daily Intake (Product)	-P/100mg
Motor Function	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.
A A A	Scientific Basis of Functionality	SR、Clinical testing

	Product Name	COFFEE BEAN EXTRACT
	Ingredient Involved with the Functionality / Daily Intake	Chlorogenic acids / 180mg
\sim	Daily Intake (Product)	-WSP/450mg
Improvement of BMI by Reducing Visceral fat and Weight	Applied Indication (Example)	Chlorogenic acids from 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

A	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 coffee beans" has been reported.
L'AND BETER (PIN)	Scientific Basis of Functionality	SR

Janto IV	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
		deteriorating eye moisturization of healthy people
0	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
	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
	Functionality / Daily Intake	
קרעו	Daily Intake (Product)	-20F/50mg
The second secon	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
		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
410	(Example)	are responsible for maintaining some of the
Cognitive		cognitive functions that decline with age: judgment
enhancement		(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)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ingredient Involved with the	Lutein 20 mg, Zeaxanthin 4.08mg
	Functionality / Daily Intake	
ZZZ	Daily Intake (Product)	-20F/100mg
Sleep	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	PERILLA SEED Oil
	Ingredient Involved with the Functionality / Daily Intake	α -linolenic acid $\angle 2.6$ g
all entry and	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.
	Scientific Basis of Functionality	SR

ANT DATE.	Product Name	PERILLA SEED Oil
•	Ingredient Involved with the Functionality / Daily Intake	α -linolenic acid $/5.49$ g
	Daily Intake (Product)	OIL/10g
Lower LDL	Applied Indication	lpha -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 ™
	Ingredient Involved with the Functionality / Daily Intake	FUCOXANTHIN / 3mg
A BEAL	Daily Intake (Product)	FUCOXANTHIN -5KW/60mg、
- ALINGER -		FucoRex ™-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
JAL V	Functionality / Daily Intake	
000	Daily Intake (Product)	-P/200mg
Reduce temporary	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.)
loss of vitality		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	
Ô	Daily Intake (Product)	oil/14g
The second se	Applied Indication	
	(Example)	This product contains ingredients that have been
Lower triglycerides and		reported to lower blood neutral fat and total
total cholesterol in the		cholesterol.
blood		
	Scientific Basis of Functionality	SR

	Product Name	Safleep™ (Saffron extract)
Contraction of the second	Ingredient Involved with the	crocin/0.66mg
	Functionality / Daily Intake	
ZZZ	Daily Intake (Product)	-P/22mg
0	Applied Indication	It has been reported that crocin derived from saffron
	(Example)	can quickly bring deep sleep to those who feel that
Sleep		their sleep quality is low, and improve sleep quality
		(falling asleep, sleeping soundly, sleeping deeply,
		and not waking up during sleep), and allows you to
		wake up feeling refreshed.
	Scientific Basis of	SR
	Functionality	

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 carefully-selected NEM defatted rice germ. Its grain size is adjusted so that the pass through rate is 90% or more for a 42 mesh and 70% or more for a 60 mesh. Single-dose test, LD50: 2,000 mg/kg or more 	15 kg 20 kg	
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 Bran (Feed)>

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



Oryza's Rice Oils

Product Name				
	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	

Product Name		RCE OL CONTONE
	Rice Frying oil	Rice Bran Oil
	With/without	With/without
	silicon	silicon
Content	16.5 kg	16.5 kg
Expiration Date	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
			(Expiration of validity period)
3	RICE BRAN OIL	Filtration device	1480318
			(Expiration of validity period) 1401763
4	MELANOIDIN	Melanoidin-containing skin cosmetics	
			(Expiration of validity period) 1998674
5	RICE BRAN OIL	Method for separating fatty acids from crude oils and fats	(Expiration of validity period)
			3496896
6	PEARL BARLEY	Hair nourishing agent and hair cosmetics	(Expiration of validity period)
7	ORYZA GABA	Degreased food material enriched with γ -aminobutyric	2810993
1	ORIZA GADA	acid	(Expiration of validity period)
8	PERILLA SEED EXTRACT	Lipoxygenase inhibitor	4231559
0			(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) 3708036
11	LITCHI SEED EXTRACT	Composite for beauty enhancement	(Expiration of validity period)
		A technology of powder preparation which could be used in food	5306626
12	ORYZA TOCOTRIENOL™	material and cosmetic material	(Expiration of validity period)
10	FUCODAN	An immunological determination method of fucoidan content	5502298
13	FUCOIDAN	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) 4541662
17	EVENING PRIMROSE EXTRACT	Anti-H.pylori composite	(Expiration of validity period)
			4849792
18	ALPHA LIPOIC ACID	Composite for beauty enhancement	(Expiration of validity period)
19	YUZU SEED EXTRACT	Composite for skin improvement	5014569
20	COFFEE DEAN EVTDACT		4499665
20	COFFEE BEAN EXTRACT	Composite for weight control	(Expiration of validity period)
21	JAPANESE BUTTERBUR EXTRACT	Anti-allergic agent	4822246
22	LITCHI SEED EXTRACT	Composite for skin improvement	4982052
			(Expiration of validity period)
23	KIWI SEED EXTRACT	Composite for beauty enhancement)	4925692
24	KIWI SEED EXTRACT	Anti-inflammatory agent and painkiller	5462430
25	CHINESE CHINE SPED EVTDACT		4925761
25	CHINESE CHIVE SEED EXTRACT	Immuno-stimulator	(Expiration of validity period)
26	RED GINGER EXTRACT	Anti-inflammatory agent and painkiller	5303697
27	BROCCOLI SPROUT EXTRACT	Sebum production promoter	5571280
21	DROCCOLI SI ROO I LATRACI		5571200

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	(Expiration of validity period)
	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

% This 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
74	COCOA EXTTRACT	Lipin 1 gene expression promoter	7427397
75	Sichuan Pepper Oil	Oral antibacterial agent	7433125
76	TOMATO SEED EXTRACT	Oral skin care composition	7405543
77	MAQUIBERRY EXTTRACT	Redness improving agent on the skin	7530200
78	PURPLE TEA EXTRACT	NO production promoter, explosive power improver for lower limb muscles, and agent for reducing muscle damage caused by intensive exercise	7489216
79	AGUAJE EXTTRACT	Regulator of estrogen activity	7537936
80	TOMATO SEED EXTRACT (LycoLisft™)	Th1/Th2 cytokine balance regulators and atopic dermatitis modifiers using them	7624694
81	TOMATO SEED EXTRACT (LycoLisft™)	Atopic dermatitis prevention and treatment agents	7613901

% 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 extraction of oil from rice bran, as well as the processor using this	USA	4384837 (Expiration of validity period)
1			Taiwan	(Expiration of validity period) 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)
	2		China	CN 1268351 (Expiration of validity period)
	COFFEE BEAN EXTRACT	Composite for weight control	USA	US 8802164 (Expiration of validity period)
4			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	SAKURA EXTRACT <i>Florabella</i> (USA) Suppression of AGE production	USA	US 9381223
6			China	CN 102883733
	Florabella (USA)		Malaysia	MY173496
			EU	EP 2937091
	ΜΑΟΙΗ ΒΕΡΡΥ ΕΥΤΡΑΟΤ		Canada	CA2895353
7	MAQUI BERRY EXTRACT	Dry eye prevention and treatment agent	Israel	239478
	MaquiBright [™]		Korea	10-2070479
			USA	US11033566
8	PURPLE TEA EXTRACT	AMPK activator	USA	US11478495



List of Papers

Α	AGUAJE EXTRACT	Takara T., Yamamoto K., Suzuki N., Yamashita S., Iio S., Noguchi H., Kakinuma T., Baba. Yamamoto S., Morikawa T., Takeda S., Shimoda H. Moriche Palm (Aguaje) Extractimproves indefinite complaintsin Japanese females: arandomized,placebo-controlled,double-blind trial. Functional Foods in Health and Disease, 10(9), 379-396 (2020). Miyasaka K., Takeda S., Nakamura S., Matsuda H., Shimoda H. Estrogenic and antiandrogenic activities of methoxyflavans isolated from the fruit of Mauritia
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	BROCCOLI SPROUT EXTRACT	Suzuki R., KohnoH., Sugie S., Okada T., Tanaka T. Preventive effects of podered broccoli sprout on azoxymethane-induced rat colonic aberrant crypt foci. J.Toxicol.Pathol.17,119-26(2004). Hirano M., Takeda S., Hitoe S., Shimoda H. Glucosinolates and isothiocyanates from broccoli seed extract suppress protein glycation and carbonylation. Functional Foods Health and Disease.8, 35-48(2018).
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	STRAWBERRY GUAVA EXTRACT	Yoneda A., Takeda S., Miyasaka K., Manse Y., Morikawa T., Shimoda H. Epidermal and Blood Vessel Barrier Functions of Glucosylceramides and Digalactosyldiacylglycerols Isolated from Yellow Strawberry Guava. PROCESSES. 12(7),1421(2024)			
Т		Takeda S., Miyasaka K., Shimoda H. Lycoperoside H, a steroidal alkaloid saponin in tomato seeds, ameliorates atopic dermatitis-like symptoms in IL-33 transgenic mice. J Food Biochem. 45(9), (2021) .			
	TOMATO SEED EXTRACT	Izumi T., Yamamoto K., Suzuki N., Yamashita S., Iio S., Noguchi H., Kakinuma T., Baba A., Takeda S., Yamada W., Shimoda H. Tomato Seed Extract Containing Lycoperoside H Improves Skin Elasticity in Japanese Female Subjects: A Randomized, Placebo-Controlled, Double-Blind Trial. J. Cosmetics.11(4), 217-236 (2021).			
		Takeda S., Miyasaka K., Shrestha S., Manse Y., Morikawa T., Shimoda H.LycoperosideH, a Tomato Seed Saponin, Improves Epidermal Dehydration byIncreasing Ceramide inthe Stratum Corneum and Steroidal Anti-InflammatoryEffect. Molecules(2021)			
v		Wu J., Miyasaka K., Yamada W., Takeda S., Shimizu N. and Shimoda H.The Anti-Adiposity Mechanisms of Ampelopsin and Vine Tea Extract in High Fat Diet and Alcohol-Induced Fatty Liver Mouse Models.Molecules 27(3), 607(2022)			
	VINE TEA EXTRACT	Takara T., Suzuki N., Yamamoto K., Iio S., Kakinuma T., Baba A., Noguchi H., Shimizu N., Yamada W., Wu J., Hirano M., Kuang X., Nagata M., Shimoda H. Hypolipidimic Effects of Resovine [™] Standardizes with Amplepsin on Posyprandial Serum Triglycerides in Healthy Japanese Participants. Japanese Pharmacology and Therapeutics. 52(5),637-43(2024)			
w		Shimoda H., Tanaka J., Kikuchi M., Fukuda T., Ito H., Hatano T., Yoshida T. Walnut polyphenols prevent liver damage induced by carbon tetrachloride and D-galactosamine: hepatoprotective hydrolyzable tannins in kernel pellicles of walnut. J. Agricul. Food Chem.56, 4444-4449(2008).			
	WALNUT POLYPHENOL	Shimoda H., Tanaka J., Kikuchi M., Fukuda T., Ito H., Hatano T., Yoshida T. Effect of polyphenol-rich extract from walnut on diet-induced hypertriglyceridemia in mice via enhancement of fatty acid oxidation in the liver. J. Agricul. Food Chem.57,1786-1792(2009). 下田博司 コーヒー生豆およびクルミ種皮の肝保護・脂肪肝抑制成分 Foods & food ingredients of Japan 217(1),52-9(2012).			
	WATERSHIELD EXTRACT	Shimoda H., Nakamura S., Hitoe S., Terazawa S., Tanaka J., Matsumoto T., Matsuda H. Anti-adipogenic polyphenols of water shield suppress TNF- α - induced cell damage and enhance expression of HAS2 and HAPB2 in adiponectin treated dermal fibroblasts. Natur. Products Chem. Res.2:5(2014).			
	Other	寶田徹 フェノール系代謝物の血液脳関門における動態 ファルマシア 54 (8),812(2018).			





List of Halal Authorized Products



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 [™] -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	94	PERILLA SEED EXTRACT-LC	cosmetic		
62	MAQUI BERRY EXTRACT-PC35	cosmetic	95	PERILLA SEED EXTRACT-LOGC	cosmetic		
63	MaquiBright™	Food	96	POLYAMINE-P	Food		
64	MAQUI BERRY EXTRACT-LC	cosmetic	97	PSORALEACORYLIFOLIAFRUITEXIRACT (PhytoRetinol™)-3	Food		
65	MAQUI BERRY EXTRACT-J	Food	98	PSORALEACORYLIFOLIAFRUITEXIRACT (PhytoRetinol™)-3C	cosmetic		
66	MOUNTAIN CAVIAR EXTRACT-P	Food	99	PSORALEACORYLIFOLIAFRUITEXIRACT (PhytoRetinol™)-P1	Food		
67	ORYZA CERAMIDE™-PCD	Food	100	P\$ORALEACORYLIFOLIAFRUITEXIRACT(PhytoRetinol™)-PC1	cosmetic		
68	ORYZA CERAMIDE™-PC	cosmetic	101	PURPLE RICE EXTRACT-P	Food		
69	ORYZA CERAMIDE™-WSP	Food	102	PURPLE RICE EXTRACT-PC	cosmetic		
70	ORYZA CERAMIDE™-WSPC	cosmetic	103	PURPLE TEA EXTRACT-P	Food		
71	ORYZA CERAMIDE™-L0.8	Food	104	PURPLE TEA EXTRACT-PC	cosmetic		
72	ORYZA CERAMIDE [™] -LC0.8	cosmetic	105	PURPLE TEA EXTRACT-WSPS	Food		
73	ORYZA GABA™ GERM-P	Food	106	PURPLE TEA EXTRACT-WSPD	Food		
74	ORYZA GABA™ EXTRACT-C	Food • cosmetic	107	PURPLE TEA EXTRACT-WSPDT	Food		
75	ORYZA GABA™ EXTRACT-HC5	Food•cosmetic	108	PURPLE TEA EXTRACT-LC	cosmetic		
76	ORYZA GABA™ EXTRACT-F95	Food	109	RED GINGER EXTRACT-P	Food		
77	ORYZA GABA™ EXTRACT-F95R	Food	110	RED GINGER EXTRACT-WSP	Food		
78	ORYZA PEPTIDE™-P60	Food	111	RED GINGER EXTRACT-LC	cosmetic		
79	ORYZA PEPTIDE™ PC60	cosmetic	112	RED RICE EXTRACT-P	Food		
80	ORYZA POLYAMINE™-LC(BG30)	cosmetic	113	RED RICE EXTRACT-PC	cosmetic		
81	ORYZA POLYAMINE™-P	Food	114	RED RICE EXTRACT-WSP	Food		
82	ORYZA PROTEIN™ -P80	Food	115	RED RICE EXTRACT-WSPC	cosmetic		
83	ORYZA PERILLA SEED OIL	Food • cosmetic	116	RESVERATROL-P5	Food		
84	PASSIONFLOWER EXTRACT-P	Food	117	RESVERATROL-PC5	cosmetic		
85	PASSIONFLOWER EXTRACT-PC	cosmetic	118	Safleep™ (SAFFRON EXTRACT)-P	Food		
86	PASSIONFLOWER EXTRACT-WSP	Food	119	SAKURA EXTRACT-P	Food		
87	PASSIONFLOWER EXTRACT-WSPC	cosmetic	120	SAKURA EXTRACT-PC	cosmetic		
88	PERILLA SEED EXTRACT-P	Food	121	SAKURA EXTRACT-LC	cosmetic		
89	PERILLA SEED EXTRACT-PC	cosmetic	122	SAKURA SYRUP	Food		
90	PERILLA SEED EXTRACT-PO	Food	123	SEABERRY EXTRACT-P	Food		
91	PERILLA SEED EXTRACT-POC	cosmetic	124	SEABERRY EXTRACT-PC	cosmetic		
92	PERILLA SEED EXTRACT-WSP	Food	125	SEABERRY EXTRACT-WSP	Food		
93	PERILLA SEED EXTRACT-WSPC	cosmetic	126	SEABERRY EXTRACT-WSPC	cosmetic		
			127	SEABERRY FRUIT OIL	Food • cosmetic		

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

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

 $\ensuremath{\mathbbmath{\mathbb{X}}}$ Please 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

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

General-purpose processing

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.

Receive request ⇒ Flow investigation ⇒ Lab scale test ⇒ Check quality ⇒ ⇒ Create prototype ⇒ Actual production

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

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		

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

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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