

delivery program



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Company Profile

Foundation:	1983 by Mrs. Heidrun and Mr. Helmut Lindner
Location:	Wald-Michelbach / Odenwald, close to Heidelberg / Germany
Basis product line:	native Collagen and Elastin solutions
New products:	1991 Development of solutions for active Polysaccharides, radical scavengers, metabolic activators and Phytosterols
New management:	1996 Mrs. Michèle Wilker
DIN ISO 9001:	November 1996, ISO 9001:2000 February 2004
Distribution:	worldwide

Our GfN Team

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range of products and their use in alphabetical order			Hydration, Moisturizer	Skin Protection, Scavenger	Metabolic Activator, Energizer	Skin Smoothing	Improvement of Skin Feel	Thickener, Rheological Additive	Hair Care, Body Wash	Sun Protection, After Sun	Deodorant	Decorative Cosmetics	Nutrition, Food Supplement
Product	EU / (INC)	Mat.-No.	1	2	3	4	5	6	7	8	9	10	14
Atecoron	Aqua (Water), Glycerin, Atelocollagen, Sodium Hyaluronate	1070	●	●		●	●			●			
Collaplex 1.0	Aqua (Water), Soluble Collagen	1001	●			●				●			
Desamidocollagen K 1.5	Aqua (Water), Desamido Collagen	1040	●			●				●			
Desaron	Aqua (Water), Glycerin, Desamido Collagen, Sodium Hyaluronate	1050	●	●		●	●			●			
Elastin PG 2000	Aqua (Water), Propylene Glycol, Hydrolyzed Elastin, Desamido Collagen	1090	●						●				
Ferulan Proactiv®	Ethoxydiglycol, Glycerin, Ferulic Acid, PEG-40 Hydrogenated Castor Oil, Oryza Sativa (Rice Bran Oil)	5001		●					●	●	●		
Ferulic Acid	Ferulic Acid	5002		●					●	●	●		
Konjac Mannan® 1.0 H3	Aqua (Water), Mannan	2021	●			●	●			●		●	
Konjac Mannan® 1.0 MEP	Aqua (Water), Mannan	2023	●			●	●			●		●	
Konjac Mannan® 1.0 SP	Aqua (Water), Mannan	2028	●			●	●			●			
Konjac Mannan® food powder	Mannan	2035											●
Konjac Mannan® gel powder 2030	Mannan	2034	●			●	●	●		●		●	

range of products and their use in alphabetical order			Hydration, Moisturizer	Skin Protection, Scavenger	Metabolic Activator, Energizer	Skin Smoothing	Improvement of Skin Feel	Thickener, Rheological Additive	Hair Care, Body Wash	Sun Protection, After Sun	Deodorant	Decorative Cosmetics	Nutrition, Food Supplement
Product	EU / (INC)	Mat.-No.	1	2	3	4	5	6	7	8	9	10	14
Omega-CH-Activator®	Aqua (Water), Panthenol, Glycerin, Glycine, Sorbitol, Glycine Soja (Soybean Protein)	3001		●	●					●			
Omega-CH-Activator®-F	Aqua (Water), Panthenol, Glycerin, Glycine, Sorbitol, Glycine Soja (Soybean Protein)	3003		●	●					●			
Omega-CHS-Activator®	Aqua (Water), Panthenol, Mannitol, Tromethamine, Glycine, Glutamic Acid, Arginine, Alanine, Aspartic Acid, Lysine, Leucine, Valine, Phenylalanine, Isoleucine, Tyrosine, Histidine	3002		●	●					●			
Quince Extract 2.5 %	Aqua (Water), Pyrus Cydonia (Quince Seed Extract)	6016	●	●		●	●			●		●	
Quince Extract MEP	Aqua (Water), Pyrus Cydonia (Quince Seed Extract)	6015	●	●		●	●			●		●	
Sabal Serrulata lipophilic	Octyldodecanol, Serenoa Serrulata (Saw Palmetto Extract), Tocopherol	5053		●		●	●		●	●		●	
Yeast Extract SC-B	Faex (Yeast Extract)	2003		●	●				●				
Yeast Extract SC-F	Faex (Yeast Extract)	2002		●	●				●				●

Groups of active ingredients, alphabetical listing

1. Plant products

Name	INCI- Name	Appearance	Use Levels	Benefits
Konjac Mannan[®] 1.0 H3	Aqua (Water), Mannan	Highly viscous clear to opaque solution with a strong odor of Vanilla. Content of Konjac Mannan [®] : 1.0 % Non preserved, stabilized with Vanilla Aroma 1 %	1 - 20 %	<ul style="list-style-type: none"> • Glucomannan solution obtained from an Asiatic tuber (food ingredient) • Excellent Film Former • Moisturizer • Gelling Agent together with Xanthan Gum • Thermostable product • pH-stability 2 – 9 • non preserved
Konjac Mannan[®] 1.0 MEP	Aqua (Water), Mannan	Highly viscous clear to opaque solution with a weak intrinsic odor. Content of Konjac Mannan [®] : 1.0 %	1 - 20 %	<ul style="list-style-type: none"> • Glucomannan solution obtained from an Asiatic tuber (food ingredient) • Excellent Film Former • Moisturizer • Gelling Agent together with Xanthan Gum • Thermostable product • pH-stability 2 - 9
Konjac Mannan[®] 1.0 SP	Aqua (Water), Mannan	Viscous clear to opaque solution with a weak intrinsic odor. Content of Konjac Mannan [®] : 1.0 %	1 - 20%	<ul style="list-style-type: none"> • Glucomannan solution obtained from an Asiatic tuber (food ingredient) • Excellent Film Former • Moisturizer • Gelling Agent together with Xanthan Gum • Thermostable product • pH-stability 2 - 9 • very competitive Glucomannan solution • Usable in liquid formulations as body lotions and shower gels
Konjac Mannan[®] food powder	Mannan	White to off-white powder with a typical odor	0.5 - 2.0 %	<ul style="list-style-type: none"> • Glucomannan obtained from an Asiatic tuber (food ingredient) • increase viscosity of the gastrointestinal contents • quickly satisfies the appetite • contributes no calories of its own • typical characteristics of lowering cholesterol and blood sugar • Electrolyte insensitive • Gelling Agent together with Xanthan Gum

1. Plant products

Name	INCI- Name	Appearance	Use Levels	Benefits
Konjac Mannan® gel powder 2030	Mannan	White to off-white powder with a typical odor	0.5 – 2.0 %	<ul style="list-style-type: none"> • Glucomannan obtained from an Asiatic tuber (food ingredient) • Thickener • Excellent Film Former • Moisturizer • Gelling Agent together with Xanthan Gum • Thermostable product • pH-stability 2 - 9
Quince Extract MEP	Aqua, Pyrus Cydonia, (Water, Quince Seed Extract)	Viscous, slightly brownish solution with a typical odor. Content of polysaccharides: 0.5 – 0.8 %	1 - 6 %	<ul style="list-style-type: none"> • Moisturizer • Film former • anti-inflammatory • anti-irritant • pH-stability 3 - 12
Quince Extract 2.5 %	Aqua, Pyrus Cydonia, (Water, Quince Seed Extract)	Viscous, slightly brownish solution with a typical odor. Content of polysaccharides: 0.25 – 0.35 %	3 - 8 %	<ul style="list-style-type: none"> • Non preserved • Stabilized with Phenethyl Alcohol • Moisturizer • Film former • anti-inflammatory • anti-irritant • pH-stability 3 - 12
Sabal Serrulata lipophilic	Octyldodecanol, Serenoa Serrulata, Tocopherol (Octyldodecanol, Saw Palmetto Extract, Tocopherol)	clear to slightly opaque, greenish-yellow solution, with a typical odor	0.5 - 5.0 %	<ul style="list-style-type: none"> • care of the skin • controls sebum release • anti-phlogistic • brings shine on hair • very effective against itchy skin

2. Synthetic and miscellaneous products

Name	INCI- Name	Appearance	Use Levels	Benefits
Ferulan Proactiv®	Ethoxydiglycol, Glycerin, Ferulic Acid, PEG-40 Hydrogenated Castor Oil, Oryza Sativa, (Ethoxydiglycol, Glycerin, Ferulic Acid, PEG-40 Hydrogenated Castor Oil, Rice Bran Oil)	Slightly yellowish solution with a typical odor	1.0 - 5.0 %	<ul style="list-style-type: none"> • anti-oxidative potential • Sunscreen effect • Deodorant effect • anti-inflammatory effect

2. Synthetic and miscellaneous products

Name	INCI- Name	Appearance	Use Levels	Benefits
Ferulic Acid	Ferulic Acid	Slightly yellowish powder with a typical odor	0.1 - 0.5 %	<ul style="list-style-type: none"> • anti-oxidative potential • Sunscreen effect • Deodorant effect • anti-inflammatory effect
Omega-CH Acivator®	Aqua, Panthenol, Glycerin, Glycine, Sorbitol, Glycine Soja (Water, Panthenol, Glycerin, Glycine, Sorbitol, Soybean Protein)	Clear, aqueous solution with a weak intrinsic odor	0.8 - 4.0 %	<ul style="list-style-type: none"> • Mixture of amino acids, radical scavengers and peptides • Scavenger of oxygen radicals and hydroxyl radicals • Mimics Superoxide dismutase activity • Stimulation of oxygen consumption • Accelerates the biosynthesis of dermal collagen
Omega-CH Acivator®-F	Aqua, Panthenol, Glycerin, Glycine, Sorbitol, Glycine Soja (Water, Panthenol, Glycerin, Glycine, Sorbitol, Soybean Protein)	Clear, aqueous solution with a weak intrinsic odor Non preserved	0.8 - 4.0 %	<ul style="list-style-type: none"> • Non preserved, filtered sterile • Mixture of amino acids, radical scavengers and peptides • Scavenger of oxygen radicals and hydroxyl radicals • Mimics Superoxide dismutase activity • Stimulation of oxygen consumption • Accelerates the biosynthesis of dermal collagen
Omega-CHS Acivator®	Aqua (Water), Panthenol, Mannitol, Tromethamine, Glycine, Glutamic Acid, Arginine, Alanine, Aspartic Acid, Lysine, Leucine, Valine, Phenylalanine, Isoleucine, Tyrosine, Histidine	Clear to slightly yellowish, aqueous solution with a weak intrinsic odor	0.8 - 4.0 %	<ul style="list-style-type: none"> • Mixture of amino acids, radical scavengers and peptides • Scavenger of oxygen radicals and hydroxyl radicals • Mimics Superoxide dismutase activity • Stimulation of oxygen consumption • Accelerates the biosynthesis of dermal collagen
Yeast Extract SC-B	Faex, (Yeast extract)	Clear solution, yellow-brown color with a typical intrinsic odor	2 - 4 %	<ul style="list-style-type: none"> • Energizing • Stimulation of oxygen consumption • Stimulation of ATP synthesis • Radical scavenger against Hydroxyl-radicals
Yeast Extract SC-F	Faex, (Yeast extract)	Clear solution, yellow-brown color with a typical intrinsic odor	2 - 4 %	<ul style="list-style-type: none"> • Non preserved, filtered sterile • Energizing • Stimulation of oxygen consumption • Stimulation of ATP synthesis • Radical scavenger against Hydroxyl-radicals

3. Proteins

Name	INCI- Name	Appearance	Use Levels	Benefits
Atecoron	Aqua (Water), Glycerin, Atelocollagen, Sodium Hyaluronate	Highly viscous, opaque solution with a weak intrinsic odor. Acting Complex: Minimum content of collagen 0.9%, Content of Sodium Hyaluronate 0.2%	1 - 20 %	<ul style="list-style-type: none"> • Synergistic complex of Atelocollagen and Hyaluronic acid • Excellent water binding capacity • Improves skin softness and elasticity • Stable in neutral pH-value ranges
Collaplex 1.0	Aqua (Water) Soluble Collagen	Viscous, clear to opaque solution with a weak intrinsic odor. Minimum content of collagen: 1.0%	1 - 5 %	<ul style="list-style-type: none"> • Native, acid soluble collagen • Moisturizing • Film forming • water-retaining
Desamido-collagen K 1.5	Aqua (Water), Desamido Collagen	Viscous, opaque solution with a characteristic intrinsic odor. Minimum content of collagen: 1.5%	0.5 - 4.0 %	<ul style="list-style-type: none"> • Native collagen • Excellent moisturizing • Film forming • water-retaining
Desaron	Aqua (Water), Glycerin, Desamido Collagen, Sodium Hyaluronate	Viscous, opaque solution with a characteristic intrinsic odor. Minimum content of collagen: 0.9%. Content of Sodium Hyaluronate: 0.1%	1 - 20 %	<ul style="list-style-type: none"> • Synergistic complex of Desamidocollagen and Hyaluronic acid • Excellent water binding capacity • Improves skin softness and elasticity
Elastin PG 2000	Aqua (Water), Propylene Glycol, Hydrolyzed Elastin, Desamido Collagen	Viscous, opaque yellow solution with a weak intrinsic odor	0.2 - 6.0 %	<ul style="list-style-type: none"> • High molecular Elastin, Desamidocollagen, Mucopolysaccharides and Triglycerides • Excellent water binding capacity, Moisturizing • Conditioning agent

1.1 Konjac Mannan[®] 1.0 H3

Description

Konjac Mannan[®] 1.0 H3 is a 1.0 % glucomannan solution obtained from an Asiatic tuber called Amorphophallus konjac. The dried tuber of the konjac plant contains about 60 - 80 % konjac flour. By means of a specific filtration technique (our know-how) we are able to offer a stable 1 % glucomannan solution. It contains a high molecular weight glucomannan consisting of mannose and glucose in a molar ratio of 8:5 with beta-1,4-linkages and a molecular weight greater than 300,000 Dalton.

For more than thousand years Konjac Mannan[®] is used as food additive for gels and glass noodles, accountable for the food's viscosity and increased stability in boiling water.

Appearance

strong viscous, clear to opaque solution with a typical odor

INCI name

Aqua (Water), Mannan

Technical data

content Konjac Mannan powder	1.00 %
content of polysaccharides	0.80 - 1.00 %
pH	6.00 - 7.00
dry residue	0.95 - 1.30 %
preservative	none
stabilizer 1% Aroma Vanilla	1.0 %

Efficacy Konjac Mannan[®] 1.0 H3 shows good film forming and excellent moisturizing properties slightly inferior to hyaluronic acid sodium salt. The skin smoothing properties are even better than the ones of Hyaluronic Acid. It is stable at high temperatures about 70 - 90°C, and also stable at low pH-ranges 2 - 4.

Dosage - skin care	5.0 - 10.0 %
- hydrogels, ampoules	10.0 - 20.0 %
- shower gels	1.0 - 3.0 %

1.2 Konjac Mannan[®] 1.0 MEP

Description

Konjac Mannan[®] 1.0 MEP is a 1.0 % glucomannan solution obtained from an Asiatic tuber called Amorphophallus konjac. The dried tuber of the konjac plant contains about 60 – 80 % konjac flour. By means of a specific filtration technique (our know-how) we are able to offer a stable 1 % glucomannan solution. It contains a high molecular weight glucomannan consisting of mannose and glucose in a molar ratio of 8:5 with beta-1,4-linkages and a molecular weight greater than 300,000 Dalton.

For more than thousand years Konjac Mannan[®] is used as food additive for gels and glass noodles, accountable for the food's viscosity and increased stability in boiling water.

Appearance

strong viscous, clear to opaque solution with a weak intrinsic odor

INCI name

Aqua (Water), Mannan

Technical data

content Konjac Mannan powder	1.00 %
content of polysaccharides	0.80 - 1.00 %
pH	3.50 - 4.00
dry residue	0.95 - 1.20 %
preservative Rokonsal MEP (similar Phenonip)	0.4 %

Efficacy Konjac Mannan[®] 1.0 MEP shows good film forming and excellent moisturizing properties slightly inferior to hyaluronic acid sodium salt. The skin smoothing properties are even better than the ones of Hyaluronic Acid. It is stable at high temperatures about 70 - 90°C, and also stable at low pH-ranges 2 - 4.

Dosage - skin care	5.0 - 10.0 %
- hydrogels, ampoules	10.0 - 20.0 %
- shower gels	1.0 - 3.0 %

1.3 Konjac Mannan[®] 1.0 SP

Description

Konjac Mannan[®] 1.0 SP is a 1.0 % glucomannan solution obtained from an Asiatic tuber called Amorphophallus konjac. The dried tuber of the konjac plant contains about 60 - 80 % konjac flour. It contains a high molecular weight glucomannan consisting of mannose and glucose in a molar ratio of 8:5 with beta-1,4-linkages and a molecular weight greater than 300,000 daltons. For more than thousand years Konjac Mannan[®] is used as food additive for gels and glass noodles, accountable for the food's viscosity and increased stability in boiling water.

Appearance

viscous, clear to opaque solution with a weak intrinsic odor

INCI name

Aqua (Water), Mannan

Technical data

content Konjac Mannan powder	1.00 %
content of polysaccharides	0.70 - 0.90 %
pH	3.70 - 4.20
dry residue	0.85 - 1.15 %
preservative Rokonsal MEP (similar Phenonip)	0.4 %

Efficacy Konjac Mannan[®] 1.0 SP is very good usable in body lotions, shower gels, sun protection lotions and after-sun lotions.

It is exceptionally when blended with polyacrylates and liposome gels. In combination with Xanthan gum thickeners very stable gels are achievable by molecular interaction and synergistic effects. It is stable at high temperatures about 70 - 90°C and also stable at low pH-ranges 2 - 4.

Dosage - body lotions	2.0 - 5.0 %
- after-sun lotions	2.0 - 5.0 %
- shower gels	1.0 - 3.0 %

1.4 Konjac Mannan[®] food powder

Description

Konjac Mannan[®] food powder is a Glucomannan as a dietary fiber, deriving from the tuber of a plant that belongs to the family of the Araceen and originally from South East Asia, called Konjac. The Chinese people call it Ju Rou and Konnyaku by the Japanese. The Amorphophallus Konjac tubers contain a significant quantity of a no absorbable polysaccharide with special properties (dietary fibre, gelatinizing, intestine cleaning agent, cholesterol and blood sugar reducing) called Konjacmannan or, more correct, glucomannan, which is separated into glucose and mannose by hydrolysis (molecular ration 1:1.6). The fresh konjac contains an average of 13.3 % dry matter. 64 % of the dry matter is glucomannan and 30.6 % is starch.

The nutrition and dietary characteristics of Glucomannan (above all with regard to the lowering of the cholesterol level) refer to the type Amorphophallus Konjac.

Konjac has been approved / registered for use in food, see official gazette by the European Union of 04.11.1998; L295127, E-425 of max. 10g/kg

Appearance

White to off-white powder with a typical odor

INCI name

Mannan

Technical data

content carbohydrate Konjac Mannan	≥ 75.0 %
content of proteins	≤ 2.0 %
content of starch	≤ 1.2 %
viscosity 1% solution at 25°C	≥ 30.000 mPa s
pH	4.0 - 7.0
loss on drying	≤ 10 %
ash	≤ 2.0 %
total microbial count	≤ 5.000 CFU / g

- Efficacy**
- increase viscosity of the gastrointestinal contents, promoting bowel action, but slowing emptying of the stomach
 - quickly satisfies the appetite, because of its expansion when it absorbs liquids
 - effective dietary supplement, contributes no calories of its own
 - typical characteristics of the lowering of cholesterol and blood sugar

Dosage - in food 10 g / kg

1.5 Konjac Mannan[®] gel powder 2030

Description

Konjac Mannan[®] gel powder 2030 is a Glucomannan as a dietary fiber, deriving from the tuber of a plant that belongs to the family of the Araceen and originally from South East Asia, called Konjac. The Chinese people call it Ju Rou and Konnyaku by the Japanese.

The Amorphophallus Konjac tubers contain a significant quantity of a no absorbable polysaccharide with special properties (dietary fibre, gelatinizing, intestine cleaning agent, cholesterol and blood sugar reducing) called Konjacmannan or, more correct, glucomannan, which is separated into glucose and mannose by hydrolysis (molecular ration 1:1.6). The fresh konjac contains an average of 13.3 % dry matter. 64 % of the dry matter is glucomannan and 30.6 % is starch.

A further interesting characteristic of Konjac Mannan lies in its synergism with other biopolymers: Konjac Mannan and Xanthan forms mixed gels at a total concentration of as low as 1.0 %. Thermoreversible gelation is observed in mixtures of Konjac Mannan and Agarose of Carrageenan solutions (DEA, 1981).

Appearance

White to off-white powder with a typical odor

INCI name

Mannan

Technical data

content carbohydrate Konjac Mannan	≥ 75.0 %
content of proteins	≤ 1.5 %
content of starch	≤ 1.0 %
viscosity 1% solution at 25°C	≥ 36.000 mPa s
pH	4.0 - 7.0
loss on drying	≤ 10 %
ash	≤ 2.0 %
total microbial count	≤ 5.000 CFU / g

Efficacy Konjac Mannan[®] gel powder 2030 shows excellent thickening properties and good film forming properties combined with important moisturizing effects. The skin smoothing properties are even better than the ones of Hyaluronic Acid. It is stable at high temperatures about 70 - 90°C and also stable at low pH-ranges 2 - 4.

Dosage - skin care, hydrogels, ampoules	0.5 - 2.0 %
- shower gels	0.5 - 1.0 %

1.6 Quince Extract MEP

Description

Active ingredient from the nature. Quince extract is an aqueous extract obtained from 5 % quince seeds (*Cydonia oblonga*).

The seeds of quince contain polysaccharides up to 22% mainly located in the seed-case of the seed. The biggest part of these polysaccharides is water soluble and is present in our extract due to a special method developed by GfN. The structure of polysaccharides is very complex. Hydrolysis shows that these polysaccharides contain sugar components like arabinose, xylose and uronic acids partly esterified. Since years these polysaccharides have been successfully used in medicine for treatment of burns, pressure ulcers (decubitus), fissures of lips and inflammation of nipples. Therefore our extract of quince seeds offers a broad range of application also in skin care products, especially those which are aimed to care and repair stressed and damaged skin.

INCI name

Aqua (Water), Pyrus Cydonia (Quince Seed Extract)

Appearance

strong viscous, slightly brownish solution with a typical odor

Technical data

polysaccharides	0.50 - 0.80 %
percentage of used quince seeds	5.00 %
pH value	4.00 - 4.50
dry residue	0.80 - 1.40 %
preservative Rokonsal MEP (similar Phenonip)	0.4 %

Efficacy

- anti-phlogistic effect based on the heterogeneous polysaccharides for treatment of burns, pressure ulcers, fissures of lips and inflammation of nipples
- skin smoothing properties, more effective than hyaluronic acid
- moisturizing properties
- pH-stability 3-12, usable for perm treatments

Dosage

- skin care products 3.0 - 6.0 %
- body lotion 1.0 - 4.0 %

1.7 Quince Extract 2.5 %

Description

Active ingredients from the nature. Quince extract is an aqueous extract obtained from 2.5 % quince seeds (*Cydonia oblonga*).

The seeds of quince contain polysaccharides up to 22% mainly located in the seed-case of the seed. The biggest part of these polysaccharides is water soluble and is present in our extract due to a special method developed by GfN. The structure of polysaccharides is very complex. Hydrolysis shows that these polysaccharides contain sugar components like arabinose, xylose and uronic acids partly esterified. Since years these polysaccharides have been successfully used in medicine for treatment of burns, pressure ulcers (decubitus), fissures of lips and inflammation of nipples. Therefore our extract of quince seeds offers a broad range of application also in skin care products, especially those which are aimed to care and repair stressed and damaged skin.

INCI name

Aqua (Water), Pyrus Cydonia (Quince Seed Extract)

Appearance

viscous, slightly brownish solution with a typical odor

Technical data

polysaccharides	0.25 - 0.35 %
percentage of used quince seeds	2.50 %
pH value	3.70 - 4.30
dry residue	0.40 - 0.70 %
preservative	none
stabilizer Phenethyl Alcohol	1.0 %
microbiology	< 1.000 CFU / ml

Efficacy

- anti-phlogistic effect based on the heterogeneous polysaccharides for treatment of burns, pressure ulcers, fissures of lips and inflammation of nipples
- smoothing properties, even more effective than hyaluronic acid
- moisturizing properties
- pH-stability 3-12, usable for perm treatments

Dosage

- skin care products 5.0 - 8.0 %
- body lotion 3.0 - 5.0 %

1.8 Sabal Serrulata lipophilic

Description

Sabal serrulata is a lipophilic extract from berries of Saw palmetto. The home of these trees are the beaches of Florida up to Carolina. Its height is maximum 4 m with dark red to black berries which are astonishing hard.

The berries contain a high quantity of fatty acids like oleic acid, lauric acid and myristic acid. In addition phytosterols in free form and as esters of fatty acids (palmitate, myristate laurate) and as glucosides can be found.

Phytosterols belong to the most important ingredients of plants, because they regulate many parts of their metabolism. They are concentrated in those parts of the plant which are supposed for growth. Phytosterols have lipophilic properties. As a part of human food they get into the blood circuit, but only in small and often insufficient quantities. They are transferred to skin, where they have been identified in the lipid film. Phytosterols are excellent protection agents, effective already in small quantities and therefore very important for the care and health of skin.

INCI name

Octyldodecanol, Saw Palmetto Extract, Tocopherol
(Octyldodecanol, Serenoa Serrulata, Tocopherol)

Appearance

Clear to slightly opaque, greenish-yellow solution with a typical odor

Technical data

Sabal serrulata/ extraction medium	1 : 5
free fatty acids	5.00 - 7.50 %
Laurinic acid	0.50 - 1.00 %
Myristinic acid	0.20 - 0.60 %
Stearic acid	0.10 - 0.30 %
Oleic acid	2.40 - 3.00 %
Linolic acid	0.40 - 0.60 %
Fatty alcoh. (Hexacosanol, Octacosanol, Lignoceryl.)	1.00 - 1.50 %
Phytosterols	min. 2.00 %
Tocopherol (Vitamin E)	0.2 %
density at 20°C	0.80 - 0.88 g / ml

Efficacy

- care of the skin
- antipruritic, anti-phlogistic
- Phytosterols are very effective against itchy skin

Dosage

- skin care products/ After Sun 3.0 - 5.0 %
- hair care products 0.5 - 1.0 %

2.1 Ferulan Proactiv[®]

Description

Ferulan Proactiv[®] is a solution containing 10 % Ferulic acid.

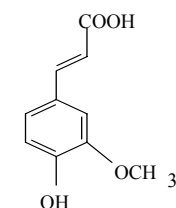
Ferulic acid occurs in nature, in plants as a free acid or as ester mainly in seeds, leaves and the bark.

Due to the difficult handling of Ferulic acid we developed Ferulan Proactiv[®]. The used solvents and emulsifiers simplify the incorporation of Ferulan Proactiv[®] into the water or lipid phase of a cosmetic formulation. In addition they also support the multiactive and multifunctional efficacy of Ferulic acid.

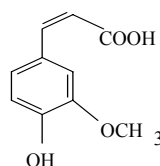
INCI name

Ethoxydiglycol, Glycerin, Ferulic Acid, PEG-40 Hydrogenated Castor Oil, Oryza Sativa (Rice Bran Oil)

Chemical structure



trans-ferulic acid



cis-ferulic acid

Appearance

slightly yellowish solution with a typical odor

Technical data

content of Ferulic acid	10.0 %
content of Ethoxydiglycol	60.0 %
content of Glycerin	25.0 - 30.0 %
content of Water	3.5 - 5.5 %
density at 20°C	1.07 - 1.09 g/ml
pH	3.7 - 4.7
preservatives	none

Efficacy

- sunscreen effect
- deodorant action
- antioxidative effectiveness
- anti-inflammatory effectiveness

Dosage

- sunblock preparations 3.0 – 5.0 %
- antioxidative effectiveness: 1.0 – 2.0 %
- sunscreen effect: 3.0 – 5.0 %

2.2 Ferulic Acid

Description

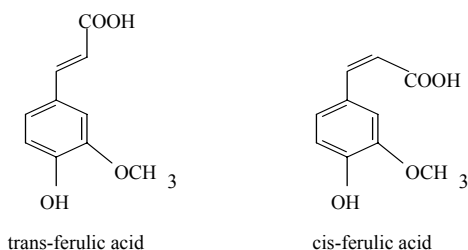
Ferulic acid occurs in nature, in plants as a free acid or as ester mainly in seeds, leaves and the bark. Nowadays the production of synthetic Ferulic acid is in large scale extractions.

The multiactive and multifunctional effects of Ferulic acid are highly interesting.

INCI name

Ferulic Acid

Chemical structure



Appearance

slightly yellowish powder with a typical odor

Technical data

content of ferulic acid	> 99.0 %
loss on drying	< 0.50 %
melting point	170 - 175°C
ash as Na-Sulfate	< 0,01 %
heavy metals	< 10 ppm
Arsenic	< 3 ppm

Efficacy

- sunscreen effect
- deodorant action
- antioxidative effectiveness
- anti-inflammatory effectiveness

Dosage

- sun block preparations 0.3 - 0.5 %
- antioxidative effectiveness 0.1 - 0.2 %
- sunscreen effect: 0.3 - 0.5 %

2.3 Omega-CH-Activator[®]

Description

Omega-CH-Activator[®] contains a mixture of amino acids, free radical scavengers and peptides, entirely of plant or synthetic origin. A specific tripeptide resembles a peptide sequence of collagen and is responsible for the superoxide dismutase activity. Since radicals are known as one of the major cause for aging, Omega-CH-Activator[®] contains a number of radical scavengers and quenchers, which exhibit special protection against radicals in the aqueous part of the tissue and the cells.

In addition to its action as moisturizer, it activates the metabolism of cells, e.g. the respiratory oxygen consumption in the cell's mitochondria and consequently increases the production of intracellular adenosine triphosphate which constitutes the biochemical energy or 'fuel' for a large number of vital cell functions, such as cell division, synthesis of proteins, and cell locomotion.

INCI name

Aqua, Panthenol, Glycerin, Glycine, Sorbitol, Glycine Soja
(Water, Panthenol, Glycerin, Glycine, Sorbitol, Soybean Protein)

Appearance

clear, aqueous solution with a weak intrinsic odor

Technical data

water content	48 - 55 %
density at 20°C	1.08 – 1.15 g/ml
pH	6.0 - 7.0
nitrogen	2.1 - 2.4 %
amino acids	4.8 %
metabolic activity	40 - 60 %
determination of hydroxyl radicals	50 - 65 %
scavenging properties (use 1 %)	
preservative - Phenonip	0.22 %
- Nipagin esters	0.1 %

Dosage - scavenger of oxygen radicals and hydroxyl radicals	0.8 %
- increases the metabolism of the cells	1.0 - 2.0 %
- enhances the water retention capacity	3.0 - 4.0 %
- superoxide dismutase activity and increase of collagen	1.0 - 2.0 %

2.4 Omega-CH-Activator[®]-F

Description

Omega-CH-Activator[®]-F contains a mixture of amino acids, free radical scavengers and peptides, entirely of plant or synthetic origin. A specific tripeptide resembles a peptide sequence of collagen and is responsible for the superoxide dismutase activity. Since radicals are known as one of the major cause for aging, Omega-CH-Activator[®]-F contains a number of radical scavengers and quenchers, which exhibit special protection against radicals in the aqueous part of the tissue and the cells.

In addition to its action as moisturizer, it activates the metabolism of cells, e.g. the respiratory oxygen consumption in the cell's mitochondria and consequently increases the production of intracellular adenosine triphosphate which constitutes the biochemical energy or 'fuel' for a large number of vital cell functions, such as cell division, synthesis of proteins, and cell locomotion.

INCI name

Aqua, Panthenol, Glycerin, Glycine, Sorbitol, Glycine Soja
(Water, Panthenol, Glycerin, Glycine, Sorbitol, Soybean Protein)

Appearance

clear, aqueous solution with a weak intrinsic odor

Technical data

water content	48 - 55 %
density at 20°C	1.08 – 1.15 g/ml
pH	6.0 - 7.0
nitrogen	2.1 - 2.4 %
amino acids	4.8 %
metabolic activity	40 - 60 %
determination of hydroxyl radicals	50 - 65 %
scavenging properties (use 1 %)	
preservative (filtered sterile)	none

Dosage	- scavenger of oxygen radicals and hydroxyl radicals	0.8 %
	- increases the metabolism of the cells	1.0 - 2.0 %
	- enhances the water retention capacity	3.0 - 4.0 %
	- superoxide dismutase activity and increase of collagen	1.0 - 2.0 %

2.5 Omega-CHS-Activator[®]

Description

Omega-CHS-Activator[®] contains a comprehensive mixture of amino acids, free radical scavengers and peptides, entirely of plant or synthetic origin. A specific tripeptide resembles a peptide sequence of collagen and is responsible for the superoxide dismutase activity. Since radicals are known as one of the major cause for aging, Omega-CHS-Activator[®] contains a number of radical scavengers and quenchers, which exhibit special protection against radicals in the aqueous part of the tissue and the cells. In addition to its action as moisturizer, it activates the metabolism of cells, e.g. the respiratory oxygen consumption in the cell's mitochondria and consequently increases the production of intracellular adenosine triphosphate which constitutes the biochemical energy or 'fuel' for a large number of vital cell functions, such as cell division, synthesis of proteins, and cell locomotion.

INCI name

Aqua (Water), Panthenol, Mannitol, Tromethamine, Glycine, Glutamic Acid, Arginine, Alanine, Aspartic Acid, Lysine, Leucine, Valine, Phenylalanine, Isoleucine, Tyrosine, Histidine

Appearance

Clear to slightly yellowish, aqueous solution with a weak intrinsic odor

Technical data

water content	57 - 63 %
density at 20°C	about 1.12 g/ml
pH	6.0 - 7.0
nitrogen	2.2 - 2.5 %
amino acids	8.5 %
metabolic activity	50 - 80 %
determination of hydroxyl radicals	55 %
scavenging properties (use 1 %)	
preservative - Phenonip	0.22 %
- Nipagin esters	0.1 %

Dosage - scavenger of oxygen radicals and hydroxyl radicals	0.8 %
- increases the metabolism of the cells	1.0 - 2.0 %
- enhances the water retention capacity	3.0 - 4.0 %
- superoxide dismutase activity and increase of collagen	1.0 - 2.0 %

2.6 Yeast Extract SC-B

Description

GfN Yeast Extract SC-B is a deodorized extract from *saccharomyces cerevisiae* (baker's yeast). A patented extraction method produces an extract both with familiar components of yeast and low molecular weight peptides, nucleotides, and nucleosides as a result of gentle processing.

This extract activates the metabolism of cells, e.g. the respiratory oxygen consumption in the cell's mitochondria and consequently increases the production of intracellular adenosine triphosphate which constitutes the biochemical energy or 'fuel' for a large number of vital cell functions, such as cell division, synthesis of proteins and cell locomotion.

Since radicals are known as one of the major cause for aging, Yeast Extract SC-B contains a number of radical scavengers and quenchers, which exhibit special protection against radicals in the aqueous part of the tissue and the cells.

This extract is conforming to regulations regarding preservation in Japan.

INCI name

FAEX, (Yeast Extract)

Appearance

clear solution, yellow-brown color with a typical intrinsic odor

Technical data

water content	65.00 - 69.00 %
pH	5.50 - 6.50
nitrogen	0.58 - 0.78 %
dry residue	14.00 - 18.00 %
density	1.04 - 1.08 g /ml
ash as Na-Sulfate	2.00 - 3.00 %
metabolic activity increase of oxygen consumption	>200 %
scavenging of hydroxyl radicals (use 1 %)	approx. 50 %
preservative:	
- 1,2-Propylenglykol	20.0 %
- Rokonsal MEP (Phenonip)	0.32 %
- dehydracetic acid	0.32 %
- Potassium sorbate	0.08 %

Dosage	
- skin care	2.0 - 4.0 %
- scalp / hair care	2.0 - 3.0 %

2.7 Yeast Extract SC-F

Description

GfN Yeast Extract SC-F is a deodorized extract from *saccharomyces cerevisiae* (baker's yeast). A patented extraction method produces an extract both with familiar components of yeast and low molecular weight peptides, nucleotides, and nucleosides as a result of gentle processing.

This extract activates the metabolism of cells, e.g. the respiratory oxygen consumption in the cell's mitochondria and consequently increases the production of intracellular adenosine triphosphate which constitutes the biochemical energy or 'fuel' for a large number of vital cell functions, such as cell division, synthesis of proteins and cell locomotion.

Since radicals are known as one of the major cause for aging, Yeast Extract SC-F contains a number of radical scavengers and quenchers, which exhibit special protection against radicals in the aqueous part of the tissue and the cells.

This extract is conform to regulations regarding preservation in Japan.

INCI name

FAEX, (Yeast Extract)

Appearance

clear solution, yellow-brown color with a typical intrinsic odor

Technical data

water content	80.00 - 90.00 %
pH	4.00 - 6.50
nitrogen	0.80 - 1.20 %
dry residue	11.00 - 17.00 %
density	1.03 - 1.08 g/ml
ash as Na-Sulfate	2.00 - 3.70 %
metabolic activity increase of oxygen consumption	>200 %
scavenging of hydroxyl radicals (use 1 %)	approx. 50 %
preservative: filtered sterile	none

Dosage - skin care	2.0 - 4.0 %
- scalp / hair care	2.0 - 3.0 %

3.1 Atecoron

Description

Atecoron is a unique composition of Atelocollagen and Hyaluronic acid. Atelocollagen is a 0.9 % solution of collagen obtained from calf skin by digestion with pepsin.

Atecoron is a non-denatured collagen with unaltered intact triple helical structure, while treatment with Pepsin removes a few amino acid sequences of the short non-helical terminal peptide regions of the collagen molecule (telopeptides, Greek 'telos' = end).

Appearance

strong viscous, opaque solution with a weak intrinsic odor

INCI name

Aqua (Water) Glycerin, Atelocollagen, Sodium Hyaluronate

Technical data

collagen content	0.90 - 1.10 %
hyaluronic acid sodium salt content	0.2 %
glycerin content	10.0 %
ash as Na ₂ SO ₄	0.80 - 1.20 %
density at 20°C	1.00 - 1.10 g/ml
pH	6.00 - 7.00
tm-value	38 - 49°C
citrate buffer	1.0 %
preservative Rokonsal MEP (similar to Phenonip)	0.4 %

Efficacy Atecoron shows excellent water binding capacities and good film forming properties. The efficacy of collagen in a cream can be felt more than 12 hours after the last application.

Uses Atecoron is excellent for use in facial creams, facial masks, collagen ampoules, body lotions, after-sun lotions, and hair conditioning products. It is exceptional when blended with polyacrylates and liposome gels because of it's stability in neutral pH ranges.

Dosage - skin care products, hydrogel	5.0 - 10.0 %
- collagen ampoules	10.0 - 20.0 %
- hair conditioning	1.0 - 2.0 %

3.2 Collaplex 1.0

Description

Collaplex 1.0 is a triple helical native collagen for use in high quality cosmetic products. Collaplex 1.0 contains some natural concomitant substances which are bound to the collagen as a result of the mild process of extraction from calves hides originated in the south of Germany. Collaplex 1.0 belongs to high molecular collagen of highest value.

Appearance

viscous, clear to opaque solution with a weak intrinsic odor

INCI name

Aqua (Water), Soluble Collagen

Technical data

collagen content	1.00 - 1.30 %
dry residue	2.00 - 2.50 %
ash as Na ₂ SO ₄	0.30 - 0.50 %
pH	3.50 - 4.00
acid value	5.50 - 6.50
tm-value	38 - 49°C
citrate buffer	1.0 %

Efficacy Collaplex 1.0 shows excellent water binding capacities and good film forming properties. The efficacy of collagen in a cream can be felt more than 12 hours after the last application.

Uses Collaplex 1.0 is highly recommended for use in facial creams, facial masks, collagen ampoules, body lotions, after-sun lotions, and hair conditioning treatments.

Dosage

- skin care products, body lotion	2.0 - 5.0 %
- hair conditioning	1.0 - 2.0 %

3.3 Desamidocollagen K 1.5

Description

Desamidocollagen K 1.5 is a triple helical native collagen for cosmetic skin-care products. This special type can be seen as a native collagen. The increased proportion of carboxyl groups is the result of the mild action of alkali on calves hides.

Appearance

viscous, opaque solution with a characteristic intrinsic odor

INCI name

Aqua (Water), Desamido Collagen

Technical data

collagen content	1.50 - 1.70 %
dry residue	1.80 - 2.50 %
ash as Na ₂ SO ₄	0.10 - 0.20 %
pH	3.50 - 4.00
acid value	0.70 - 1.20
tm-value	34 - 45°C
citrate buffer	none
preservative Rokonsal MEP (similar to Phenonip)	0.4 %

Efficacy

Desamidocollagen K 1.5 shows a pronounced water binding capacity. The efficacy of collagen in a cream can be felt more than 12 hours after the last application.

Uses

Desamidocollagen K 1.5 belongs to the most competitive collagens and therefore is highly suitable for blending into body lotions, after-sun lotions, and hair conditioning treatments.

Dosage	- bodylotion, after-sun lotions	2.0 - 4.0 %
	- hair conditioning	0.5 - 1.5 %

3.4 Desaron

Description

Desaron is a unique complex of desamidocollagen and hyaluronic acid. Desamidocollagen is obtained from calves hides by a mild alkaline procedure; as a result it contains an increased number of carboxyl groups.

Appearance

viscous, opaque solution with a characteristic odor

INCI name

Aqua (Water), Glycerin, Desamido Collagen, Sodium Hyaluronate

Technical data

collagen content	0.90 - 1.10 %
hyaluronic acid content	0.1 %
glycerin content	10.0 %
ash as Na ₂ SO ₄	1.60 - 2.00 %
pH	6.00 - 7.00
tm-value	38 - 49°C
salts	0.75 %
citrate buffer	1.0 %
preservative Rokonsal MEP (similar to Phenonip)	0.4 %

Efficacy Desaron shows a pronounced water binding capacity. The addition of hyaluronic acid results in a pleasant film on the skin. Desaron promotes an improved absorption of oily and fatty components in a cream. Desaron imparts moisture regulating properties to hydrogels.

Uses Since the pH range of this hyaluronic acid collagen complex is in the neutral range, the complex can be easily blended into hydrogels. Desaron is stable in the presence of 0.75 % of salts and no incompatibilities with thickeners or liposomes have been observed.

Dosage - skin care products, hydrogel	2.0 - 8.0 %
- collagen ampoules	10.0 - 20.0 %
- hair conditioning	1.0 - 2.0 %

3.5 Elastin PG 2000

Description

Elastin PG 2000 is an exhaustive extract of bovine neck ligaments for use in high quality cosmetic products. Elastin PG 2000 contains high molecular Elastin, Desamidocollagen, mucopolysaccharides, and triglycerides. It differs from other hydrolyzed elastin offered on the market.

Appearance

viscous, opaque yellow solution with weak intrinsic odor

INCI name

Aqua (Water), Propylene Glycol, Hydrolyzed Elastin, Soluble Collagen

Technical data

content elastin	3.20 - 4.50 %
total nitrogen	0.60 - 0.80 %
content of proteins out of N ₂ (F = 5.71)	3.40 - 4.60 %
content desamidocollagen	0.10 - 0.60 %
content 1.2 Propylene Glycol	20.0 %
molecular weight of elastin	5.000 - 30.000
ash as Na ₂ SO ₄	1.40 - 2.40 %
density at 20°C	1.00 - 1.10 g / ml
pH	6.50 - 7.50
preservative Rokonsal MEP (similar to Phenonip)	0.32 %

Efficacy Elastin PG 2000 shows good water binding capacity. Additional components, like triglycerides and mucopolysaccharides improve the skin feeling. Elastin PG 2000 improves hairstyling and when using Elastin PG 2000 in perm treatment the damage of the hair by alkaline treatment can be reduced.

Dosage - skin care products	3.0 - 6.0 %
- shampoos, hair conditioning	0.2 - 0.5 %
- perm treatment	0.6 - 0.8 %

Preservatives / stabilizers in our products

Mat.-No.	Product	Free of preservatives	Preserved with	INCI-Name	Percentage in %
			Stabilized with		
1070	Atecoron		0.4 % Rokonsal MEP	Phenoxyethanol Methylparaben Ethylparaben Propylparaben	0.288 0.064 0.032 0.016
			Glycerin, Monosodium Citrate	Glycerin, Monosodium Citrate	10.0 1.0
1001	Collaplex 1.0		0.4 % Rokonsal MEP	Phenoxyethanol Methylparaben Ethylparaben Propylparaben	0.288 0.064 0.032 0.016
			Monosodium Citrate	Monosodium Citrate	1.0
1040	Desamidocollagen K 1.5		0.4 % Rokonsal MEP	Phenoxyethanol Methylparaben Ethylparaben Propylparaben	0.288 0.064 0.032 0.016
			without stabilizer		
1050	Desaron		0.4 % Rokonsal MEP	Phenoxyethanol Methylparaben Ethylparaben Propylparaben	0.288 0.064 0.032 0.016
			Glycerin, Monosodium Citrate	Glycerin, Monosodium Citrate	10.0 1.0
1090	Elastin PG 2000		0.32 % Rokonsal MEP	Phenoxyethanol Methylparaben Ethylparaben Propylparaben	0.223 0.051 0.003 0.013
			Propylene Glycol	Propylene Glycol	20.0
5001	Ferulan Proactiv®	•	unpreserved		
			Ethoxydiglycol (accord. FDA-key), Glycerin	Ethoxydiglycol Glycerin	50 - 100 10.0
5002	Ferulic Acid	•	unpreserved		
			without stabilizer		
2021	Konjac Mannan® 1.0 H3	•	unpreserved		
			Conarom H-3	PPG-2 Methyl Ether, Piperonal, Phenylpropanol	1.0

Preservatives / stabilizers in our products

Mat.-No.	Product	Free of preservatives	Preserved with	INCI-Name	Percentage in %
			Stabilized with		
2023	Konjac Mannan® 1.0 MEP		0.4 % Rokonsal MEP	Phenoxyethanol Methylparaben Ethylparaben Propylparaben	0.288 0.064 0.032 0.016
			without stabilizer		
2028	Konjac Mannan® 1.0 SP		0.4 % Rokonsal MEP	Phenoxyethanol Methylparaben Ethylparaben Propylparaben	0.288 0.064 0.032 0.016
			without stabilizer		
2034	Konjac Mannan® gel powder 2030	•	unpreserved		
			without stabilizer		
2035	Konjac Mannan® food powder	•	unpreserved		
			without stabilizer		
3001	Omega-CH- Activator®		0.1 % Nipagin Esters	Sodium Methylparaben	0.10
			0.22 % Phenonip	Phenoxyethanol Methylparaben Ethylparaben Butylparaben Propylparaben Isobutylparaben	0.16 0.04 0.02 0.02 0.01 0.01
			Glycerin, (according FDA-Key)	Glycerin	11-25
3003	Omega-CH- Activator®-F	•	unpreserved		
			Glycerin, (according FDA-Key)	Glycerin	11-25
3002	Omega-CHS- Activator®		0.1 % Nipagin Esters	Sodium Methylparaben	0.10
			0.22 % Phenonip	Phenoxyethanol Methylparaben Ethylparaben Butylparaben Propylparaben Isobutylparaben	0.16 0.04 0.02 0.02 0.01 0.01
			Citric Acid Sodium Lactate Sorbitol Isopropyl Alcohol	Citric Acid Sodium Lactate Sorbitol Isopropyl Alcohol	0.2 - 1.0 0.2 - 1.0 0.2 - 1.0 0.2 - 1.0

Preservatives / stabilizers in our products

Mat.-No.	Product	Free of preservatives	Preserved with	INCI-Name	Percentage in %
			Stabilized with		
6016	Quince Extract 2.5 %	•	unpreserved		
			Phenethyl Alcohol	Phenethyl Alcohol	1.0
6015	Quince Extract MEP		0.4 % Rokonsal MEP	Phenoxyethanol Methylparaben Ethylparaben Propylparaben	0.288 0.064 0.032 0.016
			without stabilizer		
5053	Sabal Serrulata lipophilic	•	unpreserved		
			Tocopherol	Tocopherol	0.2
2003	Yeast Extract SC-B		0.32 % Rokonsal MEP	Phenoxyethanol Methylparaben Ethylparaben Propylparaben	0.223 0.051 0.003 0.013
			Dehadracetic Acid	Dehadracetic Acid	0.32
			Potassium Sorbate	Potassium Sorbate	0.08
			Propylene Glycol	Propylene Glycol	20.0
2002	Yeast Extract SC-F	•	unpreserved		
			without stabilizer		

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