



PROTAFLO RANGE

multifunctional
conditioner blends

PRODUCT DESCRIPTION

The ProtasFlor are a range of aqueous solutions of naturally derived multifunctional conditioners based on protein hydrolysates for easy creation of high level hair and skin care products.



PROPERTIES

- One single 'ingredient' for multiple claims
- No need for selection or dosage of several actives
- Compatible with all surfactant types
- No negative influence on foam
- Applicable in a wide pH range
- Paraben free
- Very easy handling
- Low viscous liquids

APPLICATIONS

Hair care

- shampoos
- conditioners
- hair styling
- hair coloring



Skin care

- shower
- bath

PRODUCT RANGE

Brand name	INCI description	Benefits
ProtasFlor HPS	Sodium Glutamate (and) Hydrolyzed Wheat Protein PG-Propyl Silanetriol (and) Panthenol (and) Cocotrimonium Methosulfate (and) Sodium Cocoamphoacetate	Protection from UV and thermal damages, shine, easy styling, combability, detangling
ProtasFlor S70	PEG-5 Cocomonium Methosulfate (and) Sodium Cocoamphopropionate (and) Laurdimonium Hydroxypropyl Hydrolyzed Collagen (and) Hydroxyethyl Cetyldimonium Phosphate (and) Polyquaternium-16	Styling, shine, no-fly-away, protection from UV and thermal damages, moisture retention
ProtasFlor W70	PEG-5 Cocomonium Methosulfate (and) Sodium Cocoamphopropionate (and) Laurdimonium Hydroxypropyl Hydrolyzed Wheat Protein (and) Hydroxyethyl Cetyldimonium Phosphate (and) Polyquaternium-16	Styling, shine, no fly-away, protection from UV and thermal damages, moisture retention
ProtasFlor HWQ AF	Sodium Glutamate (and) Cocotrimonium Methosulfate (and) Laurdimonium Hydroxypropyl Hydrolyzed Wheat Protein (and) Sodium Cocoamphoacetate (and) Hydrolyzed Wheat Gluten	Repair of damaged hair, substantivity, moisture retention, detangling, combability, volume, no fly-away
ProtasFlor Silk AF	Sodium Glutamate (and) Cocodimonium Hydroxypropyl Silk Amino Acids (and) Sodium Cocoamphoacetate (and) Cocotrimonium Methosulfate (and) Silk Amino Acids	Substantivity, shine, softness, nourishment, combability
ProtasFlor W25	Hydrolyzed Wheat Protein (and) Sodium Glutamate (and) Glycerin (and) Polyquaternium-7	Multifunctional, moisturization, no fly-away
SoyaFlor DEO	PG-Hydroxyethylcellulose Cocodimonium Chloride (and) PEG-15 Copolyamine (and) Laurdimonium Hydroxypropyl Hydrolysed Soy Protein (and) Alcohol (and) Lecithin	Moisturization, nourishment, protection
SoyaFlor AN	Lauryl Glucoside (and) Hydroxyethyl Cetyldimonium Phosphate (and) Laurdimonium Hydroxypropyl Hydrolyzed Soy Protein (and) PPG-1-PEG-9 Lauryl Glycol Ether (and) Lecithin (and) Hydrolyzed Soy Protein	Smoothness, detangling, nourishment, suppleness, thickening of hair
ProtasFlor CLK	Urea (and) PEG-5 Cocomonium Methosulfate (and) Sodium Cocoamphopropionate (and) Hydroxyethyl Cetyldimonium Phosphate (and) Cocodimonium Hydroxypropyl Hydrolyzed Keratin	Immediate and long-term conditioning, long-lasting permanent wave, regeneration of hair, combability
ProtasFlor EKP	Hydrolyzed Collagen (and) PEG-5 Cocomonium Methosulfate (and) Hydrolyzed Keratin (and) Sodium Cocoamphopropionate (and) Cocodimonium Hydroxypropyl Hydrolyzed Keratin	Immediate and long-term conditioning, long-lasting permanent wave, regeneration of hair, softness, shine
ProtasFlor CLK AF	Urea (and) Sodium Cocoamphoacetate (and) Cocotrimonium Methosulfate (and) Hydroxyethyl Cetyldimonium Phosphate (and) Laurdimonium Hydroxypropyl Hydrolyzed Wheat Protein	Immediate and long-term conditioning, long-lasting permanent wave, regeneration of hair, combability
ProtasFlor EKP AF	Sodium Glutamate (and) Sodium Cocoamphoacetate (and) Cocotrimonium Methosulfate (and) Hydrolyzed Wheat Gluten (and) Laurdimonium Hydroxypropyl Hydrolyzed Wheat Protein	Immediate and long-term conditioning, long-lasting permanent wave, regeneration of hair, softness, shine

PROTAFLOR CLAIM SUPPORT

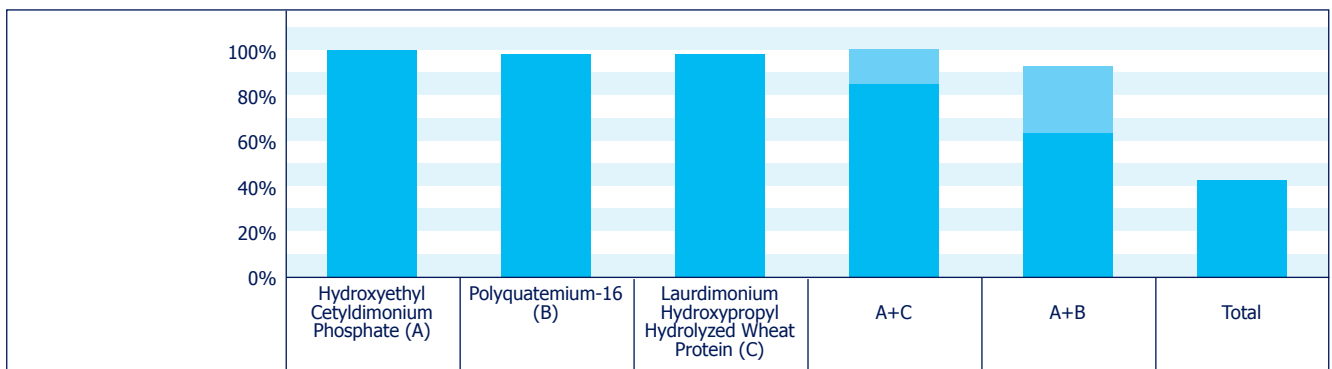
In order to support the ProtaFlor product benefits, we have studied the combability properties and the no fly-away effect of different ProtaFlor.

PROTAFLOR W70

protection
of hair

SYNERGISTIC EFFECT OF INGREDIENTS

Evaluation of the combability properties of the ingredients of ProtaFlor W70 illustrate that a synergistic effect is obtained between the ingredients. In this way optimal performance is obtained by dosage of one single product.



PROTAFLOR W25

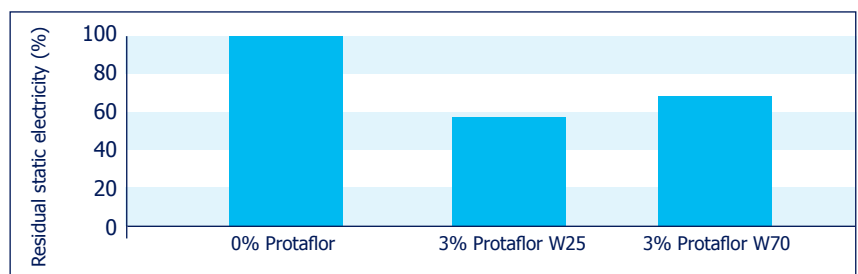
moisturization
of skin and hair

NO FLY-AWAY EFFECT

The anti-static properties of different ProtaFlor were evaluated by measuring the static electricity on hair. Therefore the hair was washed and dried under controlled conditions of temperature and relative humidity. Addition of ProtaFlor W70 and ProtaFlor W25 gives a reduction of the static electricity on hair.

TEST FORMULATION

INGREDIENT	% w/w
Water	Qs to 100.0
LES28	20.0
Euroquat HC47 VG	6.2
ProtaFlor type	See graph
Lactic acid	Qs to pH 5.0



PROTAFLO HWQ AF

regeneration
of hair

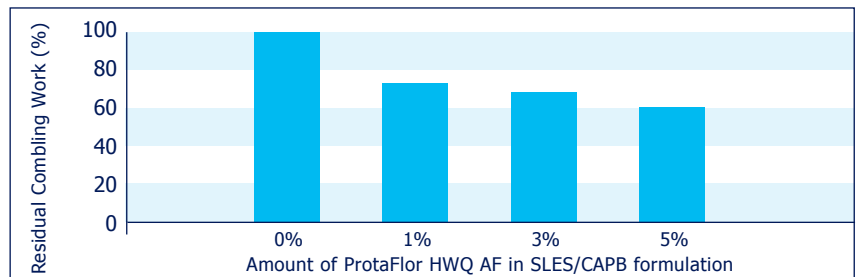


COMBABILITY PROPERTIES

Below graph shows the results of a wet combing test where the effect of different amounts of ProtaFlor HWQ AF was studied. For this test the hair was washed and dried under controlled conditions. The work force needed to comb the hair was measured, the lower the work force the better the conditioning properties.

TEST FORMULATION

INGREDIENT	% w/w
Water	Qs to 100.0
LES28	20.0
Euroquat HC47 VG	6.2
ProtaFlor HWQ AF	see graph
Lactic acid	Qs to pH 5.0



PROTAFLO SILK AF

regeneration
of hair

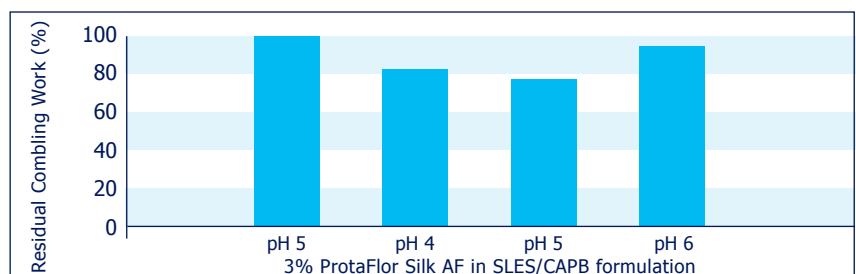
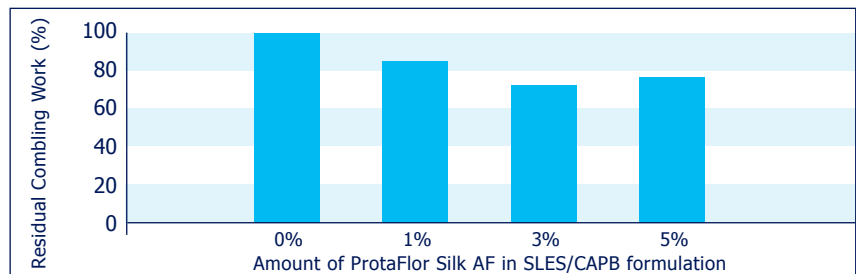


COMBABILITY PROPERTIES

The first graph shows the results of a wet combing test where the effect of different amounts of ProtaFlor Silk AF was studied. The second graph illustrates the influence of the pH of the formulation.

TEST FORMULATION

INGREDIENT	% w/w
Water	Qs to 100.0
LES28	20.0
Euroquat HC47 VG	6.2
ProtaFlor Silk AF	see graph
Lactic acid	Qs to pH 5.0



PRODUCT BENEFITS

Effect	Recommended product
Combability, detangling	ProtaFlor HPS, ProtaFlor HWQ AF, ProtaFlor Silk AF, ProtaFlor CLK, ProtaFlor CLK AF, SoyaFlor AN
Moisturization	ProtaFlor S70, ProtaFlor W70, ProtaFlor HWQ AF, ProtaFlor W25, SoyaFlor DEO
No fly-away	ProtaFlor S70, ProtaFlor W70, ProtaFlor HWQ AF, ProtaFlor W25
Nourishment	ProtaFlor Silk AF, SoyaFlor DEO, SoyaFlor AN
Protection	ProtaFlor HPS, ProtaFlor S70, ProtaFlor W70, SoyaFlor DEO
Regeneration	ProtaFlor HWQ AF, ProtaFlor CLK, ProtaFlor EKP AF, ProtaFlor CLK AF, ProtaFlor EKP
Shine	ProtaFlor HPS, ProtaFlor S70, ProtaFlor W70, ProtaFlor Silk AF, ProtaFlor EKP, ProtaFlor EKP AF
Softness	ProtaFlor Silk AF, ProtaFlor EKP, ProtaFlor EKP AF
Thickening	SoyaFlor AN
Volume	ProtaFlor HWQ AF

GUIDE FORMULATIONS



Addition of ProtaFlor to your skin care formulations contributes to extensive nourishment of the skin. Furthermore our ProtaFlor products are perfectly suited to create the additional conditioning benefit in 2 in 1 hair care formulations next to cleaning and foaming.

Mild Pearly Hand Soap Ref 031-07B		
INGREDIENT	INCI DESCRIPTION	% w/w
Water	Aqua	54.0
LES28	Sodium Laureth Sulfate	28.0
Euroquat HCB LA	Cocamidopropyl Betaine	8.0
Euroglyc AMS	Sodium Cocoamphoacetate	4.0
Glycerin	Glycerin	2.0
Lactic acid	Lactic Acid	Qs to pH 6.0
SoyaFlor DEO	PG-Hydroxyethylcellulose Cocodimonium Chloride (and)	2.0
EuroNac AMF Ultra	Lauryldimonium Hydroxypropyl Hydrolysed Soy Protein (and) Lecithin	
Sodium chloride	Glycol Distearate (and) Cocamidopropyl Betaine Sodium Chloride	2.0 Qs to 3000 mPa.s

2 in 1 Shampoo Ref 14420-23		
INGREDIENT	INCI DESCRIPTION	% w/w
Water	Aqua	33.0
LES28	Sodium Laureth Sulfate	35.7
Euroquat HC47 VG	Cocamidopropyl Betaine	20.0
Euroglyc AMS	Sodium Cocoamphoacetate	6.3
ProtaFlor Silk AF	Sodium Glutamate (and) Cocodimonium Hydroxypropyl Silk Amino Acids (and) Sodium Cocoamphoacetate (and) Cocotrimonium Methosulfate (and) Silk Amino Acids	3.0
Euronac AMF Ultra	Glycol Distearate (and) Cocamidopropyl Betaine	2.0
Lactic acid	Lactic Acid	Qs to pH 5.0

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