

Hair Care Like a Pro

Formulation
guidelines



Lamberti
personal care

Designing
new values
in chemistry

Lamberti Technologies for Personal Care.

Make Beauty Happen, Make Innovation Real.

Lamberti is a global manufacturer of chemical specialties focused on customers' needs. Thanks to its well-established Technological Platforms, Lamberti Personal Care is fully committed to target consumers' requirements with high-quality, performant ingredients. Each product within our portfolio is innovation-driven and designed to open new perspectives, supporting our customers in the development of the formulations of tomorrow.

Our approach for Personal Care combines a very strong knowledge, built over decades, with a seamless search for new advanced solutions. Working alongside our customers, we help transforming experience into

groundbreaking raw materials, providing a unique tailor made service.

This made our brands ESAFLOR®, VISCOLAM® and EUCAROL® appreciated and recognized worldwide.

All new developments supported by our R&D laboratories are committed towards sustainability and environmentally friendly chemistry, in compliance with regulatory requirements.

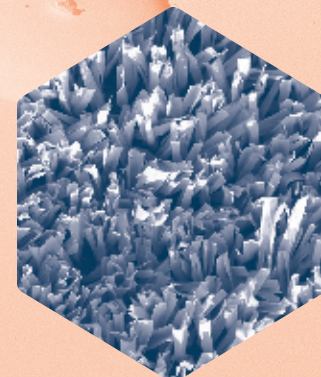
To better focus on formulation design Lamberti has integrated Kalichem, who has a well-recognized know-how in the world of cosmeceuticals and synergistic ingredients.



OLEOCHEMICALS



NATURAL POLYMERS



SYNTHETIC POLYMERS

Tailored at-home hair regimens, for a salon look.

A trend likely to outlast Covid-19 lockdowns.

While some consumers came out of salons' lockdowns with badly damaged hair, others invested in sophisticated high-grade shampoos and at-home treatments, for a beautiful, shiny and healthy result.

People had more time on their hands during the pandemic. Many did some research and became more educated and aware about their hair types and needs.

Highly technical and tailored products entered the bathrooms' cupboards, to match specific hair concerns. It's been dubbed the "skinification" of hair by experts, who think that this trend is here to last.

Hair Care Like a Pro entails tailored formulations, to target hair needs from root to tip and deliver impeccable results. A mild scrub for a healthy looking scalp, followed by a tonalizing shampoo, can make your hair colour look brighter and shinier for longer.

For hair that looks like it's been through the hands of a **salon professional** every week.



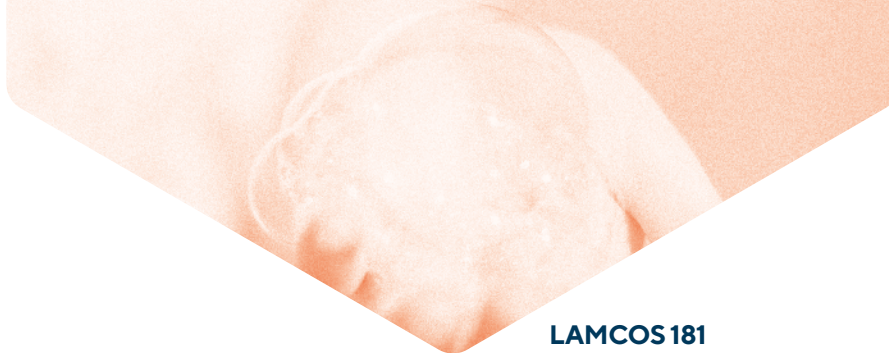
Scrub Shampoo

Shampoo treatment with natural scrubbing particles, for a mild but deep cleansing action of your scalp. A happy scalp leads to healthy hair that behaves well, looks glossy and grows to the best of its ability.

VISCOLAM® CK1 is a versatile and easy-to-formulate **rheology modifier**. It is ideal for formulations where high clarity is valued and generates products with a smooth flow. Specifically developed to impart **efficient suspending** and stabilizing, as well as thickening properties, it is an efficient formulation partner for surfactants' systems.

EUCAROL® AGL 35 MB is a **naturally derived**, mild anionic surfactant. It derives from L-Glutamic acid, an amino acid naturally present in hair and skin. It shows good foaming properties, especially at mildly acidic pH, providing a very fine, **mousse-like foam**. It is manufactured and certified according to the RSPO's Mass Balance supply chain model.

ESAFLOR® ZERO-X is a self-hydrating, **sustainable** cationic derivative of natural guar gum, obtained through ESAFLOR® ZERO-X technology. Ideal for shampoos, this bio-based polymer offers **excellent detangling** properties and hair feel.



LAMCOS 181

Phase	INCI name	Trade name	% w/w
A			
1	Aqua (Water)		To 100
2	Acrylates Copolymer	VISCOLAM® CK1	8.0
3	Sodium Laureth Sulfate (27% a.m.)		15.0
4	Disodium Cocoyl Glutamate	EUCAROL® AGL 35 MB	15.0
5	Sodium Cocoamphoacetate (40% a.m.)		2.5
B			
1	Aqua (Water)		30.0
2	Disodium EDTA		0.05
3	Guar Hydroxypropyltrimonium Chloride	ESAFLOR® ZERO-X	0.3
C			
1	Styrene/Acrylates Copolymer, Aqua (Water)		0.5
2	Preservatives		q.s.
3	Parfum (Fragrance)		q.s.
4	Prunus Amigdalus Dulcis (Sweet Almond) Shellpowder, Corylus Avellana (Hazel) Shellpowder		2.0
5	Citric Acid, 20% soln.		To pH 5.0

General characteristics:

Appearance: milky/brownish viscous liquid
 pH: ~ 5.0
 Viscosity (Brookfield RVT, 5 rpm, 25°C): ~ 4000 mPa*s

Curly Co-Wash

Low-foaming sulfate free formulation, that combines the cleansing benefits of a shampoo with the hydrating benefits of a conditioner. Your curls will be gently cleansed while preserving moisture and boosting softness, with a light conditioning action.

ESAFLOR® HM 22 is a unique **emulsification-aid** and stabilizer that imparts **distinctive textures** to the formulation. It is a non-ionic derivative of the natural gum, obtained from the guar plant. Thanks to its polymeric structure, ESAFLOR® HM 22 conveys also a nice and smooth hair feel.

ESAFLOR® ZERO-X is a self-hydrating, sustainable cationic derivative of natural guar gum, obtained through ESAFLOR® ZERO-X technology. This **bio-based polymer** offers excellent detangling properties and hair feel, also in co-wash and conditioners. In restructuring balms ESAFLOR® range helps to **restore natural softness** and combability of the hair.

SORBILENE O E/P is a **non-ionic emulsifier** and solubilizer for toiletries. It helps stabilising emulsions and suspensions. The chemical specifications of SORBILENE O E/P are in accordance with the provisions of European Pharmacopeia.

LAMCOS 182

Phase	INCI name	Trade name	% w/w
A			
1	Aqua (Water)		To 100
2	Glycerin		2.0
3	Disodium EDTA		0.05
4	C18-22 Hydroxyalkyl Hydroxypropyl Guar	ESAFLOR® HM 22	0.2
5	Guar Hydroxypropyltrimonium Chloride	ESAFLOR® ZERO-X	0.5
6	Citric Acid, 20% soln.		To pH 5.5
B			
1	Cocamidopropyl Betaine (30% a.m.)		20.0
2	Cetyl Alcohol		3.5
3	Glycol Stearate SE		2.5
4	Prunus Amygdalus Dulcis (Sweet Almond) Oil		1.5
5	Cocos Nucifera (Coconut) Oil		1.5
6	Cetrimonium Chloride		1.0
7	Polysorbate-80	SORBILENE O E/P	2.0
8	Tocopherol, Helianthus Annuus (Sunflower) Seed Oil		0.1
C			
1	Panthenol		1.0
2	Preservatives		q.s.
3	Parfum (Fragrance)		q.s.
4	Citric Acid, 20% soln.		To pH ~ 4.5

General characteristics:

Appearance: off-white fluid emulsion

pH: ~ 4.5

Viscosity (Brookfield RVT, 5 rpm, 25°C): ~ 5000 mPa*s

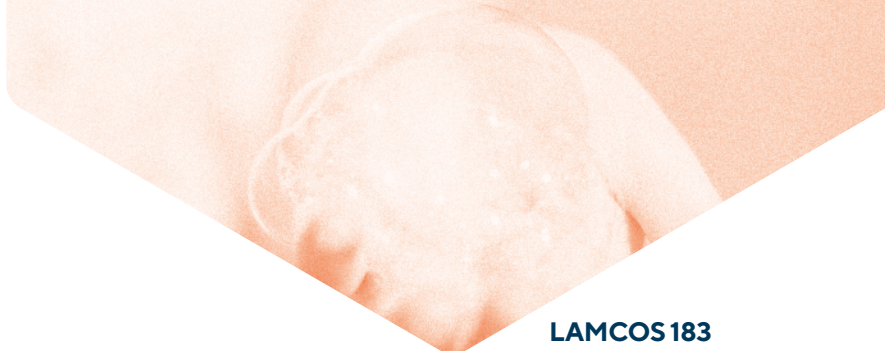
Solid Shampoo Bar

Eco-friendly solid shampoo, free of harsh ingredients. This luxuriously lathering shampoo bar provides a creamy dense mild foam, together with excellent cleansing and conditioning properties.

EUCAROL® AGE C50 MB is a α -hydroxy-acid derived surfactant in propylene glycol, from renewable raw materials, suitable for **mild and natural formulations**. EUCAROL® AGE C50 MB is manufactured and certified according to the RSPO's Mass Balance supply chain model.

EUCAROL® AGE C50 MB is fully based on **renewable sources** and thus compliant to COSMOS standard.

ESAFLOR® ZERO-X is a sustainable cationic derivative of natural guar gum, obtained through ESAFLOR® ZERO-X technology. This **bio-based polymer** delivers light conditioning, enhanced combability and **improved hair feel**. It can be easily dispersed into limited amounts of water and it is therefore suitable also for solid formulations.



LAMCOS 183

Phase	INCI name	Trade name	% w/w
A			
1	Sodium Cocoyl Isethionate (78% a.m.)		30.0
2	Caprylic/Capric Triglycerides		5.0
3	Cocos Nucifera (Coconut) Oil		4.0
4	Disodium Coco-Glucoside Citrate, Propylene Glycol	EUCAROL® AGE C50 MB	5.0
5	Sodium Lauroyl Sarcosinate (99% a.m.)		30.0
6	Cetearyl Alcohol		9.5
7	Cocamidopropyl Betaine (30% a.m.)		9.1
8	Tocopherol, Heliantus Annuus (Sunflower) Seed Oil		0.1
B			
1	Aqua (Water)		2.0
2	Glycerin		2.0
3	Sodium Benzoate		0.5
4	Guar Hydroxypropyltrimonium Chloride	ESAFLOR® ZERO-X	0.3
5	Citric Acid, 50% soln.		2.0
C			
1	Parfum (Fragrance)		q.s.

General characteristics:

Appearance: solid bar

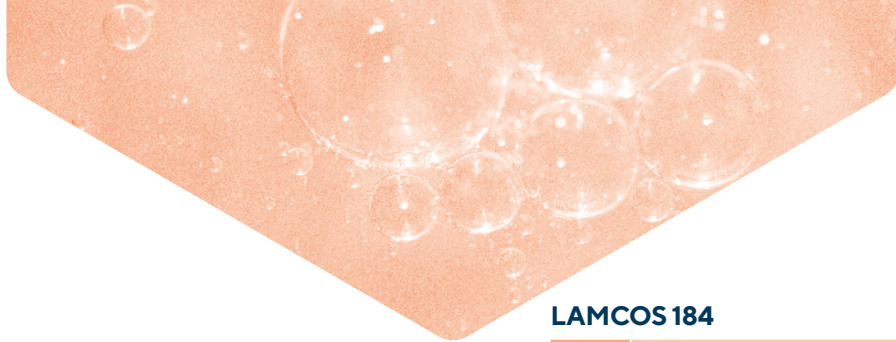
Purple Toning Shampoo

Keep your blonde or silver hair in perfect condition with this sulfate-free toning shampoo. Formulated with purple pigment to neutralize brassy and yellow tones, enhancing cool shades.

VISCOLAM® CK1 is versatile and easy-to-formulate rheology modifier. It is ideal for formulations where high clarity is valued (pH 6.5-6.8) and generates products with a smooth flow. Specifically developed to impart **efficient suspending** and stabilizing, as well as thickening properties, it is an efficient formulation partner for surfactants' systems. At mildly acidic pH, below 6.5, VISCOLAM® CK1 is an efficient thickener for hazy surfactants' formulations, with an **elegant rheology**.

EUCAROL® AGE/ET MB delivers a **soft foam** with a fine and creamy texture. It is a α -hydroxyacid derivative, from renewable raw materials, suitable for **mild and natural** formulations. It is manufactured and certified according to the RSPO's Mass Balance supply chain model. It is also compliant to COSMOS and NATRUE standards.

ESAFLOR® HC56 is a **bio-based** hydrophilic cationic guar derivative. It provides **light conditioning**, leaving hair light and soft, with no build-up effect. The addition of ESAFLOR® HC56 helps **adding shine** to dull hair for a vibrant colour. This guar derivative can also help reducing negative effects generally linked to harsh soaps and surfactants, for a healthier looking scalp.



LAMCOS 184

Phase	INCI name	Trade name	% w/w
A			
1	Aqua (Water)		17.0
2	Sodium Cocoamphoacetate (40% a.m.)		7.0
3	Acid Violet 43		0.3
B			
1	Aqua (Water)		10.0
2	Glycerin		2.0
3	Acrylates Copolymer	VISCOLAM® CK1	6.0
4	Disodium Laureth Sulfosuccinate (40% a.m.)		16.0
5	Sodium Lauroyl Methyl Isethionate (32% a.m.)		13.0
6	Sodium Coco-Glucoside Tartrate	EUCAROL® AGE/ET MB	6.5
C			
1	Aqua (Water)		20.0
2	Hydroxypropyl Guar Hydroxypropyltrimonium Chloride	ESAFLOR® HC56	0.5
3	Citric Acid, 20% soln.		To pH ~ 5.5
D			
1	Panthenol		1.0
2	Preservatives		q.s.
3	Parfum (Fragrance)		q.s.
4	Citric Acid, 20% soln.		To pH 5.0

General characteristics:

Appearance: purple viscous liquid

pH: ~ 5.0

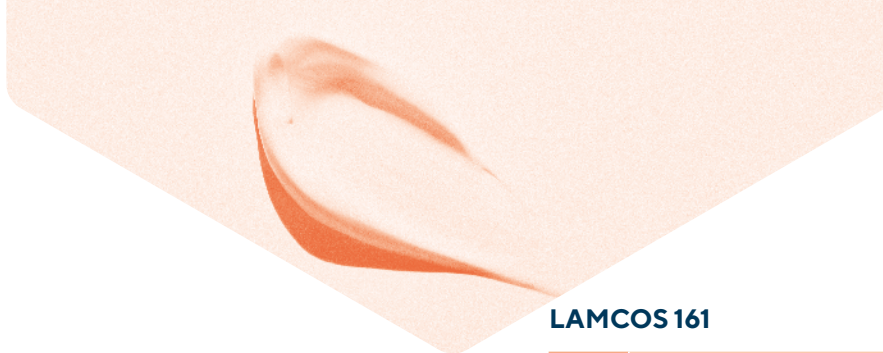
Viscosity (Brookfield RVT, 5 rpm, 25°C): ~ 4000 mPa*s

Coconut Hair Conditioner

Deep conditioning treatment, that works to moisturize and soften strands and enhance shine, for soft, silky and shiny hair.

ESAFLOR® ZERO-XB is a dispersible, sustainable cationic derivative of natural guar gum, obtained through ESAFLOR® ZERO-X technology. Ideal for shampoos, this **bio-based polymer** offers excellent detangling properties and hair feel. In restructuring balms ESAFLOR® range helps to **restore natural softness** and combability of the hair.

ESAFLOR® HM 22 is a unique **emulsification-aid** and stabilizer that imparts **distinctive textures** to the formulation. It is a non-ionic derivative of the **natural gum**, obtained from the guar plant. Thanks to its polymeric structure, ESAFLOR® HM 22 conveys also nice and smooth hair feel.



LAMCOS 161

Phase	INCI name	Trade name	% w/w
A			
1	Aqua (Water)		To 100
2	Glycerin		2.0
3	Guar Hydroxypropyltrimonium Chloride	ESAFLOR® ZERO-XB	0.5
4	C18-22 Hydroxyalkyl Hydroxypropyl Guar	ESAFLOR® HM 22	0.1
5	Citric Acid, 20% soln.		To pH ~ 5.5
B			
1	Cetrimonium Chloride		1.0
C			
1	Cetearyl Alcohol		4.0
2	Cetearyl Glucoside		1.0
3	Cocos Nucifera (Coconut) Oil		3.0
4	BHT		0.1
D			
1	Amodimethicone, Cetrimonium Chloride, Trideceth-12		2.0
E			
1	Preservatives		q.s.
2	Parfum (Fragrance)		0.3
3	Citric Acid, 20% soln.		To pH ~ 4.0

General characteristics:

Appearance: white cream

pH: ~ 4.0

Viscosity (Brookfield RVT + Helipath, 10 rpm, 25°C, 30"): 20000-30000 mPa*s

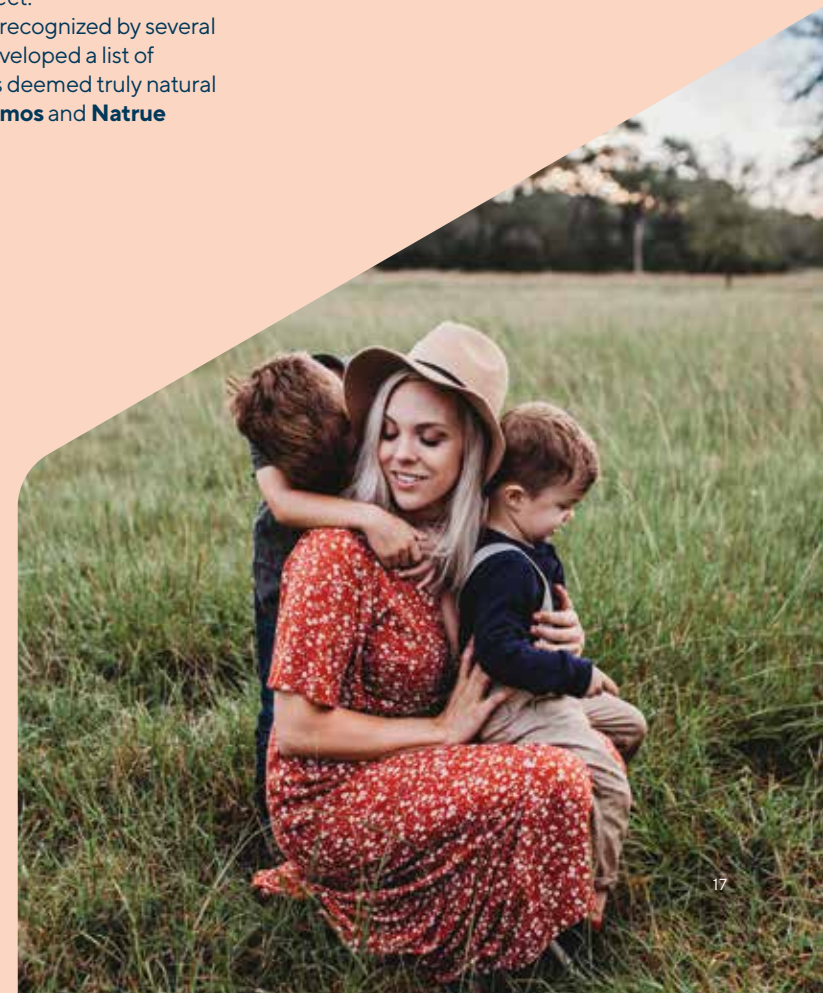
Lamberti certification and more



BELIEVING IN THE LABEL, meeting the demands of certified ingredients

Lamberti is fully committed to providing high quality materials and sustainable solutions. We operate according to the highest standards in terms of quality, safety and environmental protection, in compliance with the more accredited certifications for environmental respect. Our commitment is recognized by several certifications: we developed a list of approved chemicals deemed truly natural and conform to **Cosmos** and **Natrue** cosmetic standards.

The **Halal** label is gaining popularity in the cosmetics industry. Halal certification is a strict and carefully controlled process; several criteria are evaluated, from raw materials to manufacturing facilities. ESAFLOR® line is produced in a plant that fully meets all requirements for Halal Quality Control.





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