

Natural beauty starts with a small seed and a great idea.





NATURE, PASSION AND SCIENCE. Our ingredients for beautiful skin.

With the creation of a separate division for cosmetic specialties at Berg + Schmidt Oleo in 2012, the foundation was laid for the development of new, innovative and high-tech cosmetic ingredients to be offered alongside our existing portfolio of functional lipids, namely cosmetic esters, fatty alcohols, and fatty acids. We started our sales activities by supplying shea butter under the now well-known brand name of **BergaCare SB**. A commonly used raw material, we supply in excellent quality. Our famous and award-winning thickening emulsifier **BergaMuls ET 1** was invented during that time as well, and we were far ahead of the trend curve with this **up-cycled product**, as you will see in this brochure. The development was based on a collaboration with our sister food company Hydrosol. We are part of the interdisciplinary Stern-Wywiol Gruppe, and can benefit in many ways from its outstanding expertise in all kinds of food applications.



Within the last decade, successful and **innovative products for certified natural cosmetic products** have grown out of our initial ideas. At Berg + Schmidt Cosmetics, we offer approved natural and **sustainable** cosmetic raw materials, which are state of the art, and which answer market and consumer needs. It is our aim to make our customers' and consequently formulators' lives easier by finding smart solutions for their formulation challenges. The focus of all our activities lies on **healthy and vital skin**, and we are passionate about finding new ways to improve skin quality. With our application laboratory in the Stern-Technology Center near Hamburg, we have access to new technologies and can further learn from our food colleagues.

Food for beautiful skin.



BergaMuls ET 1 (INCI: Beta-Glucan and Pectin)

The **trendsetter** within our range of natural cosmetic raw materials. It's based on fruit and cereal fibre by-products from the food industry i.e. juice production, and is therefore a prime example of **"circular beauty"**.

The fruit fibres that provide the thickening pectin are obtained from freshly harvested, de-juiced and de-oiled fruits. The pulp is then dried and milled. ß-glucan is derived from cereal fibre. It's known for its **moisturizing**, **soothing and skin calming** properties. BergaMuls ET 1 is also an outstanding multifunctional ingredient, because it's an:

Emulsifier

- Thickener
- → Sensory enhancer

Consumers expect natural ingredients to do the same job as traditional systems when used in the same way. In talking about natural and sustainable alternatives, we have to re-think not only the origin of the raw materials but also the formulation process. *Let's talk about what's in cosmetic formulations, and not what isn't!*

BergaCare FG products

... are natural silicone alternatives to cyclopentasiloxane and are readily biodegradable. The range consists of four products, giving a broad choice for formulators.

Especially the origin from olive and **Kalahari melon seed oil** gives the different blends additional functionality, as well as great sustainability. The latter oil is very rich in essential fatty acids, while providing antioxidant properties in topical applications.

BergaCare FG 5

- → BergaCare FG Olive
- → BergaCare FG M12
- → BergaCare FG L11

BergaCare Shea Butter

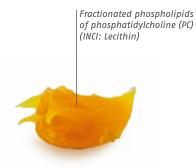
Women's gold is what shea butter is often referred to. This valuable and natural ingredient not only nourishes the skin when used in lotions or creams. It also nourishes African women and communities that harvest the widely growing shea nuts. In contrast to huge monoculture plantations, shea nuts are only collected between May and October, and only as much as is available. The nuts are then dried and mechanically processed to obtain the raw butter. This work enables women to improve the quality of their lives and the lives of their families and communities. It's more than just an ingredient. It's a tradition. BergaCare SB shea butter (INCI: Butyspermum Parkii (Shea) Butter) supports this tradition.



BergaSom Sun

BergaSom Sun products (INCI: Lecithin; INCI: Hydrogenated Lecithin) are the ideal active or functional ingredients for certified natural cosmetics, and are based on sunflower. The different grades can enhance active penetration, improve the sebum quality of acne-prone skin, or act as emulsifiers or co-emulsifiers in sophisticated skin care formulations with outstanding sensory qualities.

Sunflower-derived lecithin and its phospholipids, namely phosphatidylcholine, offer several advantages compared to conventional materials with similar functions or activity. Lecithin is known and appreciated because it is "generally recognized as safe" and due to its good skin compatibility. However, the term lecithin is used for a variety of different substances, from which the fractionated BergaSom Sun products differ:



BergaSom (yellow to brown paste) 50–90 % PC Hydrogenated fractions of phosphatidylcholine (PC) (INCI: Hydrogenated Lecithin)

BergaSom H (white to yellowish powder) 70–90 % PC

47 % phospholipid complex 12–18 % phosphatidylcholine 10–15 %phosphatidylethanolamine 8–11 % % phosphatidyllinositol 3–8 % phosphatid acids

11 % other lipids 5–7 % glycolipids 2–3 % sterols, tocopherols

5 % carbohydrates

36 % triglycerides

1 % water

acetone insoluble

%

3



Increased share of phospholipid complex and acetone-insoluble components



De-oiled Lecithin (yellow powder) ~ 24 % PC

BergaCare SmartLipids

BergaCare SmartLipids are the latest generation of lipid-based delivery systems, and allow higher loading of lipo-soluble actives, while protecting them physically and chemically to prevent degradation. Once applied to the skin, they form a 2nd skin, reinforce the skin barrier (BergaCare SmartLipids Ceramide – INCI: Aqua (and) Caprylic/Capric Triglyceride (and) Ceramide NP (and) Sodium Cetearyl Sulfate (and) Ceramide AP (and) Phytosterols (and) Pentylene Glycol (and) Sunflower Seed Acid (and) Stearic Acid (and) Behenic Acid (and) Oleic Acid (and) Palmitic Acid), ensure prolonged, retarded release and improve overall skin penetration, leading to improved efficacy. They are COSMOS-approved and offer a natural alternative to commonly used anti-aging actives (BergaCare SmartLipids Bakuchiol – INCI: Aqua, Cetyl Palmitate, Bakuchiol, Pentylene Glycol, Glyceryl Behenate, Caprylic/Capric Triglyceride, Sodium Steaoryl Glutamate). What's more, they come in an aqueous suspension and allow formulators to work with lipo-soluble actives even in aqueous and oil-free systems like trending serums and toner.

An advanced delivery system technology that makes formulators' lives easier.





Controlled and prolonged release



Restoration of the natural skin barrier

R

Protection of sensitive activities

Deep Hydration Beauty Serum

Skin nourishing serum to energize the skin

Phase	Product	INCI Name	Supplier	% (w/w)
	Demin. Water	Aqua	-	87.0
	BergaMuls ET 1	Beta Glucan (and) Pectin	Berg + Schmidt	4.0
А	Dermofeel PA-3	Sodium Phytate, Aqua, Alcohol	Evonik	0.1
	Verstatil SL non GMO	Aqua, Sodium Levulinate, Potassium Sorbate	Evonik	1.5
	Pentylene Glycol	Pentylene Glycol	Evonik	3.0
	Centella Asiatica GW	Glycerin, Aqua, Centella Asiatica Extract	Diverse	1.0
В	Corn Po4 PH B 9042	Distarch Phosphate	Diverse	1.0
D	Citric Acid (25 % solution)	Citric Acid	Diverse	Adjust pH
C	BergaCare SmartLipids Ceramide	Aqua (and) Caprylic/Capric Triglyceride (and) Ceramide NP (and) Sodium Cetearyl Sulfate (and) Ceramide AP (and) Phytosterois (and) Pentylene Glycol (and) Berg + Schmidt Sunflower Seed Acid (and) Stearic Acid (and) Behenic Acid (and) Oleic Acid (and) Palmitic Acid	Berg + Schmidt	15.00





Circular beauty and up-cycled ingredients have been used in cosmetic formulations for many years, in the form of plant or seed extracts and crushed nutshells as peeling particles, and are the next big trend. A trend for the future. And the current up-cycling trend goes even further, as almost all waste materials or discarded objects from the food industry are considered valuable and are being turned into sophisticated products. The best examples are fruit fibre and olive oil waste as used in our **BergaMuls ET 1** or **BergaCare FG Olive**. To take full advantage of this great potential, we work closely with our Stern-Wywiol sister companies.



Manufacturing procedure

- Weigh in all raw materials from phase A and start stirring
- Add all raw materials from phase B and stir for 30 minutes
- → Homogenize at 7000 rpm for 1 minute
- → Adjust pH to 5.3 and add phase C

Caring Body Lotion

Nourishing body care with the extra touch

Phase	Product	INCI Name	Supplier	Use concentration (%)
	Demin. Water	Aqua	-	Up to 100
А	Cosphaderm® Pentiol Natural	Pentylene Glycol	Cosphatec	4.0
	Glycerin 99.5%	Glycerin	Diverse	2.5
	BergaCare FG Olive	Hydrogenated Ethylhexyl Olivate (and) Hydrogenated Olive Oil Unsaponifiables	Berg + Schmidt	3.0
	Vegarol 1618 50:50	Cetearyl Alcohol	Berg + Schmidt	2.5
	BergaCare EM-CP	Cetyl Palmitate	Berg + Schmidt	1.0
В	Vegarol 1898	Stearyl Alcohol	Berg + Schmidt	1.0
	Grape Seed Oil	Vitis Vinifera (Grape) Seed Oil	Interchimie	2.0
	Jojoba Oil	Simmondsia Chinensis (Jojoba) Seed Oil	Interchimie	2.0
	Cosphaderm® T-70 non GMO Eco	Tocopherol (and) Helianthus Annuus (Sunflower) Seed Oil	Cosphatec	0.2
B1	BergaCare SB	Butyrospermum Parkii (Shea) Butter	Berg + Schmidt	10.0
DI	Beurre de Kpangnan Raffiné	Pentadesma Butyracea Seed Butter	Interchimie	5.0
С	Citric Acid Solution (25%)	Citric Acid	Diverse	Adjust pH
D	BergaMuls ET 1	Beta-Glucan (and) Pectin	Berg + Schmidt	2.0



Manufacturing procedure

- Prepare phase A and heat up to 75°C
- Mix all raw materials from phase B and heat to 75°C until homogenous
- Then add both butters of phase B1 to phase
 B and stir until all materials are molten
- Add phase B/B1 to A while stirring and homogenize for 30 seconds at 7000 rpm
- Cool to below 40 °C, adjust pH and add BergaMuls ET 1 (D) while stirring. Continue stirring until formulation is homogenous.



With its valuable

components like

fatty acids, phytosterols and

antioxidants, shea butter perfectly nourishes the skin. It

helps to regulate the moisture level in the skin, and is re-fatting and conditioning, which leads to a wonderfully smooth and supple skin. The light yet creamy body lotion leaves the skin well-cared for.





Berg + Schmidt GmbH & Co. KG An der Alster 81 20099 Hamburg, Germany Phone: +49 (0) 40 / 284 09 58-0 Fax: +49 (0) 40 / 284 039-44 cosmetics@berg-schmidt.com www.berg-schmidt.com

A member of

STERNWYWIOL Gruppe

NATURE, PASSION AND SCIENCE. Our ingredients for beautiful skin.

With the creation of a separate division for cosmetic specialties at Berg + Schmidt Oleo in 2012, the foundation was laid for the development of new, innovative and high-tech cosmetic ingredients to be offered alongside our existing portfolio of functional lipids, namely cosmetic esters, fatty alcohols, and fatty acids. We started our sales activities by supplying shea butter under the now well-known brand name of BergaCare SB. A commonly used raw material, we supply in excellent quality. Our famous and award-winning thickening emulsifier BergaMuls ET 1 was invented during that time as well, and we were far ahead of the trend curve with this up-cycled product, as you will see in this brochure. The development was based on a collaboration with our sister food company Hydrosol. We are part of the interdisciplinary Stern-Wywiol Gruppe, and can benefit in many ways from its outstanding expertise in all kinds of food applications.

> Within the last decade, successful and innovative products for certified natural cosmetic products have grown out of our initial ideas. At Berg + Schmidt Cosmetics, we offer approved natural and sustainable cosmetic raw materials, which are state of the art, and which answer market and consumer needs. It is our aim to make our customers' and consequently formulators' lives easier by finding smart solutions for their formulation challenges. The focus of all our activities lies on healthy and vital skin, and we are passionate about finding new ways to improve skin quality. With our application laboratory in the Stern-Technology Center near Hamburg, we have access to new technologies and can further learn from our food colleagues.

Food for beautiful skin.

Consumers expect natural ingredients to do the same job as traditional systems when used in the same way. In talking about natural and sustainable alternatives, we have to re-think not only the origin of the raw materials but also the formulation process. Let's talk about what's in cosmetic formulations, and not what isn't!

BergaCare FG products

NWYWIOLGruppe

(INCI: Bela-Glucan and Peclin)

BergaMuls ET 1

The **trendsetter** within our range of natural cosmetic raw materials. It's based on fruit and cereal fibre by-products from the food industry i.e. juice production, and is therefore a prime example of "circular beauty".

The fruit fibres that provide the thickening pectin are obtained from freshly harvested, de-juiced and de-oiled fruits. The pulp is then dried and milled. ß-glucan is derived from cereal fibre. It's known for its moisturizing, soothing and skin calming properties. BergaMuls ET 1 is also an outstanding multifunctional ingredient, because it's an:

- Emulsifier
- Thickener
- Sensory enhancer



.. are natural silicone alternatives to cyclopen tasiloxane and are readily biodegradable. The range consists of four products, giving a broad choice for formulators.

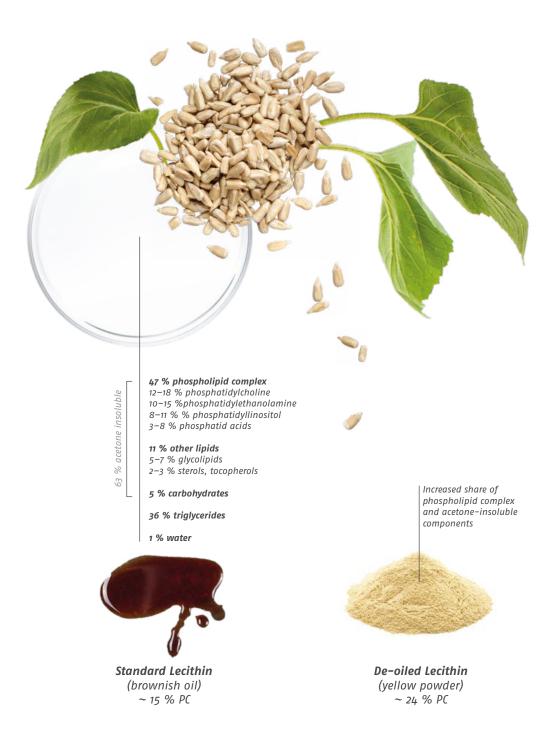
Especially the origin from olive and Kalahari melon seed oil gives the different blends additional functionality, as well as great sustainability. The latter oil is very rich in essential fatty acids, while providing antioxidant properties in topical applications.

- BergaCare FG 5
- BergaCare FG Olive
- BergaCare FG M12
- BergaCare FG L11



BergaCare Shea Butter

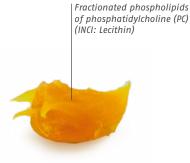
Women's gold is what shea butter is often referred to. This valuable and natural ingredient not only nourishes the skin when used in lotions or creams. It also nourishes African women and communities that harvest the widely growing shea nuts. In contrast to huge monoculture plantations, shea nuts are only collected between May and October, and only as much as is available. The nuts are then dried and mechanically processed to obtain the raw butter. This work enables women to improve the quality of their lives and the lives of their families and communities. It's more than just an ingredient. It's a tradition. BergaCare SB shea butter (INCI: Butyspermum Parkii (Shea) Butter) supports this tradition.



BergaSom Sun

BergaSom Sun products (INCI: Lecithin; INCI: Hydrogenated Lecithin) are the ideal active or functional ingredients for certified natural cosmetics, and are based on sunflower. The different grades can enhance active penetration, improve the sebum quality of acne-prone skin, or act as emulsifiers or co-emulsifiers in sophisticated skin care formulations with outstanding sensory qualities.

Sunflower-derived lecithin and its phospholipids, namely phosphatidylcholine, offer several advantages compared to conventional materials with similar functions or activity. Lecithin is known and appreciated because it is "generally recognized as safe" and due to its good skin compatibility. However, the term lecithin is used for a variety of different substances, from which the fractionated BergaSom Sun products differ:



BergaSom (yellow to brown paste) 50-90 % PC

Hydrogenated fractions of phosphatidylcholine (PC) (INCI: Hydrogenated Lecithin)



BergaSom H (white to yellowish powder) 70-90 % PC

BergaCare SmartLipids

BergaCare SmartLipids are the latest generation of lipid-based delivery systems, and allow higher loading of lipo-soluble actives, while protecting them physically and chemically to prevent degradation. Once applied to the skin, they form a 2nd skin, reinforce the skin barrier (BergaCare SmartLipids Ceramide - INCI: Aqua (and) Caprylic/Capric Triglyceride (and) Ceramide NP (and) Sodium Cetearyl Sulfate (and) Ceramide AP (and) Phytosterols (and) Pentylene Glycol (and) Sunflower Seed Acid (and) Stearic Acid (and) Behenic Acid (and) Oleic Acid (and) Palmitic Acid), ensure prolonged, retarded release and improve overall skin penetration, leading to improved efficacy. They are COSMOS-approved and offer a natural alternative to commonly used anti-aging actives (BergaCare SmartLipids Bakuchiol - INCI: Aqua, Cetyl Palmitate, Bakuchiol, Pentylene Glycol, Glyceryl Behenate, Caprylic/Capric Triglyceride, Sodium Steaoryl Glutamate). What's more, they come in an aqueous suspension and allow formulators to work with lipo-soluble actives even in aqueous and oil-free systems like trending serums and toner.

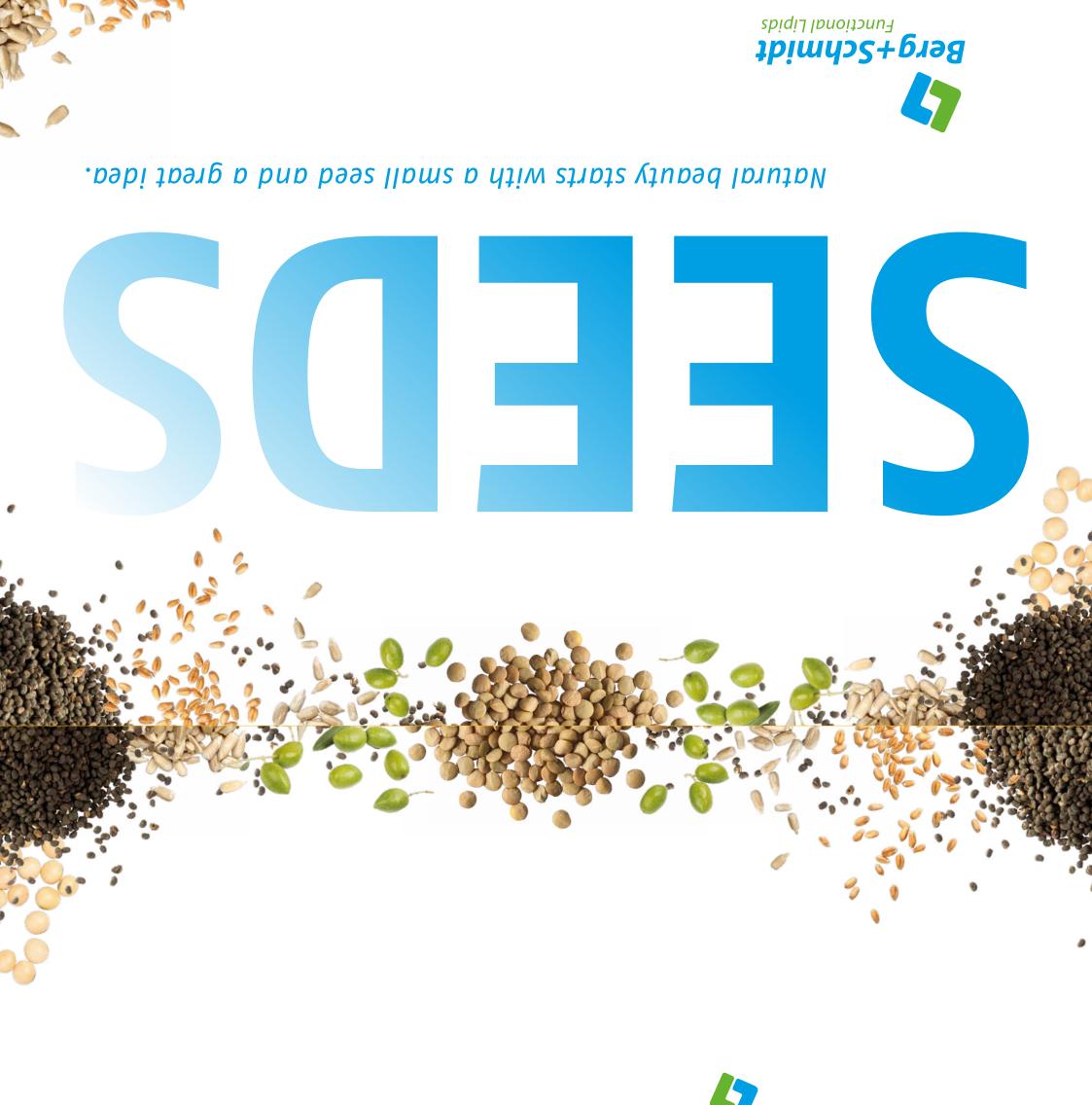
An advanced delivery system technology that makes formulators' lives easier.



Controlled and prolonged release

Restoration of the natural skin barrier

Protection of sensitive activities



Deep Hydration Beauty Serum

Skin nourishing serum to energize the skin





great potential, we work closely with our Stern-Wywiol sister companies. used in our BergaMuls ET 1 or BergaCare FG Olive. To take full advantage of this se strew lio solo bne and fruit fibre and olive oil waste as objects from the food industry are considered valuable and are being turned into up-cycling trend goes even further, as almost all waste materials or discarded peeling particles, and are the next big trend. A trend for the future. And the current tions for many years, in the form of plant or seed extracts and crushed nutshells as -clumurot of and up-cycled ingredients have been used in cosmetic formula-

Manufacturing procedure

- gninits frats bna A əsenq morî sleirətem wer lle ni dzieW
- stir for 30 minutes bne 8 əseriq morî sleirətem wer lle bbA 🗧 🔶
- etunim r 101 mq1 0007 fb esinegomoH
-) əseriq bbe bre E.Z of Hq İsujbA 🗧 🦳



STERNWYWIOL

A member of

Berg + Schmidt GmbH & Co. KG An der Alster 81 20099 Hamburg, Germany Phone: +49 (0) 40 / 284 09 58-0 Fax: +49 (0) 40 / 284 039-44 cosmetics@berg-schmidt.com www.berg-schmidt.com



ατίη βοάγ *L*οτίοη

Nourishing body care with the extra touch

D	r T3 sluMsg198	Beta-Glucan (and) Pectin	Berg + Schmidt	5*0
С	(%ZS) noituloS bioA Sitio	Citric Acid	Diverse	Hq tsuįbA
۶ß	Beurre de Kpangnan Raffiné	Pentadesma Butyracea Seed Butter	lnterchimie	0.2
	BergaCare SB	Butyrospermum Parkii (Shea) Butter	Berg + Schmidt	0.01
8	oo3 OMD non o7-T ®m19b6hq2o0	zuunnA zuntnaileH (bas) loronpoor (sunnomna zuntaine) li0 beez (rewoltnu2)	oətedqeol	2.0
	li0 edojol	li0 bəə2 (sdojol) sisnənid) sisbnommi2	lnterchimie	5*0
	li0 bəə2 əqrəd	li0 bəə2 (əqɕəð) ərəfiniV sitiV	lnterchimie	5.0
	868r lo1639V	ΙοήοοΙΑ Ιγιεθτζ	Berg + Schmidt	٥.٢
	BergaCare EM-CP	etyl Palmitate	Berg + Schmidt	٥.٢
	Vegarol 1618 50:50	Cetearyl Alcohol	Berg + Schmidt	۲°۲
	BergaCare FG Olive	(and) sətəvilo iyyət bətərəgorbyh Hydrogenətəd Olive Jil Dəvətənəgorbyh	Berg + Schmidt	٥٠٤
	Glycerin 99.5%	Glycerin	Diverse	5.5
A	leruteN loitne9 @m1ebedq203	Pentylene Glycol	cosphatec	0°ΰ
	Demin. Water	supA	-	οοι οt qU
əsey	Product	эшей Юл	Supplier	(%) noitatration (%)

Manufacturing procedure

- J°∂7 of qu fead bne A asedq areqarq
- suonagomod litnu J°27 ot tead bne 8 asend mort sleiratem wer lle xiM
- B and stir until all materials are molten Then add both butters of phase B1 to phase
- mq1 0007 f6 sbnoses 05 rof színsgomod bns gnirrits slidw A of r8\8 ssand bbA
- stirring until formulation is homogenous. BergaMuls ET 1 (D) while stirring. Continue bbs bns Hq fsuįbs ,0° o4 wol9d of loo)

lotion leaves the skin well-cared for. which leads to a wonderfully smooth and supple skin. The light yet creamy body helps to regulate the moisture level in the skin, and is re-fatting and conditioning, antioxidants, shea butter perfectly nourishes the skin. It fatty acids, phytosterols and

certified natural for

Bergowuls ET1

ləəttəttə gliding yet velvety

,tnesealq e Provides

components like

eldeulev

sti AtiW