

# Distinctive<sup>®</sup> Emul-Lipid LB

INCI: Hydrogenated Lecithin, Behenyl Alcohol, Palmitic Acid

June 24, 2015 rev

DC3808

## Bio-compatible, Multi-functional Emulsifying Base

**Distinctive<sup>®</sup> Emul-Lipid LB** is a unique "bio-mimetic" skin care base for use in the formulation of creams, lotions and gels. This substantive material is highly skin compliant, as its composition closely mimics the natural balance of essential components found in the membranes of all living organisms; phospholipids, natural fatty acids and alcohols. By replenishing these naturally occurring components to the skin, barrier function is restored to provide long-lasting protection against drying and environmental stress.



**Ecocert compliant**, Distinctive<sup>®</sup> Emul-Lipid LB is the natural choice for improving product stability and performance. It is compatible with liposomes and allows the formulation of stable cosmetic formulations without the use of additional emulsifiers, surfactants, gums or thickeners. Ideal for the formulation of O/W emulsions, Distinctive<sup>®</sup> Emul-Lipid LB provides for a luxurious, full bodied product. By forming a complex of lipids, fatty acids and fatty alcohols, it facilitates the coating and stabilization of oil droplets with the formation of sheet-like structures. This lamellar network in the continuous phase offers improved stability and creates a unique, rich texture.

### BENEFITS

- ◆ Hydrating/Moisturizing
- ◆ Restructuring
- ◆ Film-forming
- ◆ Improves bioavailability and delivery of actives
- ◆ Unique emulsification and gelling properties
- ◆ Rich skin feel
- ◆ High oil-holding capacity (40%)
- ◆ Highly skin compliant
- ◆ Soothing
- ◆ Ecocert compliant

### APPLICATIONS

- ◆ Creams & Lotions
- ◆ Cleansers
- ◆ Gels
- ◆ Sensitive skin
- ◆ Anti-aging
- ◆ Color cosmetics

### TYPICAL PROPERTIES

Appearance	Solid wax
Color	Off-white to light brown
Phospholipids	18.0-22.0%
Peroxide Value	3.0 meq/g Max.
Acid Value	62 mg/g Max.
Iodine Value	3 mg/g Max.
Moisture	2.0% Max.
pH (4%)	4.5-6.5

### FORMULATION GUIDELINES

Recommended use level 4-6%  
Add to water phase and heat to 75-80°C. Do not heat above 85°C, as this may cause product to darken.

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## MOISTURE INTENSE SERUM

Formula: RON 15-96-1

PHASE	INGREDIENT	% BY WEIGHT	
A	Water	qs	To the main vessel, add water and begin mixing with a propeller mixer. Premix Propanediol and Xanthan Gum and add to batch. Begin heating to 75-80°C. While heating, add Glycerin. At 75-80°C, add Distinctive <sup>®</sup> Emul-Lipid LB. Mix at 75-80°C for 20 minutes or until Distinctive <sup>®</sup> Emul-Lipid LB is fully hydrated.
A	Propanediol	3.00	
A	Xanthan Gum	0.30	
A	Glycerin	10.00	
A	<b>Distinctive<sup>®</sup> Emul-Lipid LB</b>	<b>4.00</b>	
B	Dimethicone	1.00	In a side container, combine Phase B ingredients and heat to 75-80°C. Add Phase B to Phase A, mix 15 minutes, until uniform.
B	Cetyl Alcohol	0.50	
B	Isododecane	4.00	
B	<b>Distinctive<sup>®</sup> Squalane Butter 45</b>	<b>5.00</b>	Begin cooling batch. At 40°C, add Phase C ingredients. Cool to room temperature.
B	Butyrospermum Parkii (Shea) Butter	2.00	
B	C12-15 Alkyl Benzoate	2.00	
C	Preservative	<u>      </u> qs 100.00	

## EXFOLIATING CLEANSER

Formula: RON16-29-4

PHASE	INGREDIENT	% BY WEIGHT	
A	Water	qs	To the main vessel, add water and begin mixing with a propeller mixer. Begin heating to 75-80°C. Premix Xanthan Gum and Glycerin. While heating, add Phase A ingredients, one at a time. Mix at 75-80°C for 20 minutes or until Distinctive <sup>®</sup> Emul-Lipid LB is fully hydrated.
A	Aloe Barbadosis Powder	0.10	
A	Xanthan Gum	0.20	
A	Glycerin	8.00	
A	<b>Distinctive<sup>®</sup> Emul-Lipid LB</b>	<b>5.00</b>	
B	Canola Oil	1.50	In a side container, combine Phase B ingredients and heat to 75-80°C. Add Phase B to Phase A, mix 15 minutes, until uniform. Begin cooling batch.
B	Cetearyl Alcohol	3.00	
B	<b>Distinctive<sup>®</sup> Squalane Butter 45</b>	<b>2.00</b>	
C	Sodium Cocoyl Isethionate	2.00	At 35°C, add Phase C. Mix until uniform
D	Sodium Polyacrylate	0.80	At 30°C, add Phase D. Mix until uniform.
E	Preservative	Qs	At 30°C, add Phase E. Mix until uniform. Homogenize, if necessary before adding Phase F ingredients.
F	Fragrance	qs	Add Phase F ingredients. Mix until uniform.
F	Scrubbing Beads/Exfoliant	<u>      </u> qs 100.00	
			Add Phase G ingredients. Mix until uniform.

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## SHIMMERING CREAM

Formula: RON16-31-2

PHASE	INGREDIENT	% BY WEIGHT	
A	Water	q.s.	To the main vessel, add water and begin mixing with a propeller
A	Glycerin	5.00	mixer. Begin heating to 75-80°C. While heating, add Phase A
A	<b>Distinctive<sup>®</sup> Emul-Lipid LB</b>	<b>5.00</b>	ingredients, one at a time. Mix at 75-80°C for 20 minutes or
B	Canola Oil	3.00	until Distinctive <sup>®</sup> Emul-Lipid LB is fully hydrated.
B	Helianthus Annuus (Sunflower) Seed Oil	2.00	
B	Coco-Caprylate/Caprate	2.00	In a side container, combine Phase B ingredients and heat to 75-
B	Cetearyl Alcohol	2.30	80°C. Add Phase B to Phase A, mix 15 minutes, until uniform.
B	<b>Distinctive<sup>®</sup> Squalane Butter 45</b>	<b>4.00</b>	Begin cooling batch.
C	Water (and) Butylene Glycol (and) Beta-Glucan	3.00	At 35°C, add Phase C ingredients. Mix until uniform.
C	Preservative	q.s.	
C	Fragrance	q.s.	At 30°C, add Phase D. Mix until uniform. Cool to Room
D	Sodium Polyacrylate	0.45	Temperature.
		<u>100.00</u>	

## FACE FINISHING MOISTURIZER

Formula: RON16-37

PHASE	INGREDIENT	% BY WEIGHT	
A	Water	q.s.	To the main vessel, add water and begin mixing with a propeller
A	Glycerin	4.00	mixer. Begin heating to 75-80°C. While heating, add Phase A
A	<b>Distinctive<sup>®</sup> Emul-Lipid LB</b>	<b>4.00</b>	ingredients, one at a time. Mix at 75-80°C for 20 minutes or
B	Cetyl Palmitate	1.50	until Distinctive <sup>®</sup> Emul-Lipid LB is fully hydrated.
B	Cetiol LC	2.00	
B	Helianthus Annuus (Sunflower) Seed Oil	2.00	In a side container, combine Phase B ingredients and heat to 75-
B	Cetearyl Alcohol	2.00	80°C.
B	<b>Distinctive<sup>®</sup> Squalane Butter 45</b>	<b>2.00</b>	Add Phase B to Phase A, mix 15 minutes, until uniform. Begin
C	Water (and) Butylene Glycol (and) Beta-Glucan	2.00	cooling batch.
C	<b>Gransil PSQ</b>	<b>2.00</b>	
C	Sodium Polyacrylate (and) Dimethicone (and) Cyclopentasiloxane (and) Trideceth-6 (and) PEG/PPG-18/18 Dimethicone	2.00	At 35°C, add Phase C ingredients, one at a time, mixing well
D	<b>DC Instalift Goji</b>	<b>1.00</b>	between each addition. Mix until uniform.
E	Preservative	qs	At 30°C, add Phase D. Mix until uniform
F	Ammonium Acryloyldimethyltaurate/VPCopolymer	0.45	At 30°C, add Phase E. Mix until uniform.
		<u>100.00</u>	At 30°C, add Phase F. Mix until uniform. Homogenize if

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## LIQUID CRYSTAL SQUALANE CREAM

Formula: RON15-73

PHASE	INGREDIENT	% BY WEIGHT	
A	Water	qs	To the main vessel, add water and begin mixing with a propeller mixer. Premix Propanediol and Xanthan Gum and add to batch. Begin heating to 75-80°C. While heating, add Glycerin.
A	Propanediol	3.00	
A	Xanthan Gum	0.30	
A	Glycerin	10.00	At 75-80°C, add Distinctive <sup>®</sup> Emul-Lipid LB. Mix at 75-80°C for 20 minutes or until Distinctive <sup>®</sup> Emul-Lipid LB is fully hydrated.
A	<b>Distinctive<sup>®</sup> Emul-Lipid LB</b>	<b>5.00</b>	
B	Dimethicone	1.00	In a side container, combine Phase B ingredients and heat to 75-80°C. Add Phase B to Phase A, mix 15 minutes, until uniform. Begin cooling batch.
B	Cetyl Alcohol	0.50	
B	Isododecane	4.00	
B	<b>Distinctive<sup>®</sup> Squalane Butter</b>	<b>5.00</b>	
B	Butyrospermum Parkii (Shea) Butter	2.00	At 35°C, add Phase C ingredients. Cool to room temperature.
B	C12-15 Alkyl Benzoate	2.00	
C	Preservative	qs	
		<u>100.00</u>	

## COOLING CREME

Formula: RON16-40-3

PHASE	INGREDIENT	% BY WEIGHT	
A	Water	q.s.	To the main vessel, add water and begin mixing with a propeller mixer. Begin heating to 75-80°C.
A	Aloe Barbadensis Leaf Juice	0.10	
A	Water (and) Butylene Glycol (and) Beta-Glucan	1.50	While heating, add Phase A ingredients, one at a time. Mix at 75-80°C for 20 minutes or until Distinctive <sup>®</sup> Emul-Lipid LB is fully hydrated.
A	Glycerin	3.00	
A	<b>Distinctive<sup>®</sup> Emul-Lipid LB (RON)</b>	<b>4.00</b>	
B	Stearic Acid	0.90	In a side container, combine Phase B ingredients and heat to 75-80°C.
B	Dimethicone	1.50	
B	Cetyl Palmitate	1.00	
B	Propylheptyl Caprylate	2.00	
B	Butyrospermum Parkii (Shea) Butter	1.50	Add Phase B to main vessel. Mix for 5 minutes. Homogenize for 5 minutes.
B	Caprylic/Capric Triglyceride	1.50	
B	Tocopheryl Acetate	0.50	Switch to propeller mixer and begin cooling batch.
C	Triethanolamine	0.45	
D	<b>Gransil PSQ (RON)</b>	<b>0.80</b>	At 50°C, add Phase C ingredient. Mix until uniform.
D	Preservative	q.s.	
D	<b>Liquid Ice BG (RON)</b>	<b>1.00</b>	At 35°C, add Phase D ingredients. Mix until uniform.
E	Ammonium Acryloyldimethyltaurate/VP Copolymer	<u>1.00</u>	
		100.00	At 30°C, add Phase E ingredients. Mix until uniform. Cool to Room Temperature.

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