

## HAIR CONDITIONER <Emulsion> ABR-HT-002-20

The quat-free conditioner is developed with ingredients with a high natural origin index.

It contains **AMISAFE™ LMA-60** which improves the dry combability and softness, **ELDEW™ PS-203R** and **ELDEW™ SL-205** that improve the hair hydrophobicity and **PRODEW™ 500** that improves the hair luster.

	Trade Name	INCI Name	wt %	Function
A	Water	Aqua	73.75	Vehicle
	Edeta BD *1	Disodium EDTA	0.1	Chelating
B	Jaguar HP-105 *2	Hydroxypropyl Guar	0.4	Film former/ thickener
	Glycerin *3	Glycerin	3.0	Humectant
C	<b>AMISAFE™ LMA-60 (60%)</b>	<b>Hydroxypropyl Arginine Lauryl/Myristyl Ether HCl, Ethanol</b>	3.0	Amphoteric surfactant / Conditioning agent
D	Lanette D *1	Cetearyl Alcohol	5.0	Co-emulsifier/ Consistency agent
	Lameform TGI *1	Polyglyceryl-3 Diisostearate	2.6	Emulsifier
	<b>GP-1</b>	<b>Dibutyl Lauroyl Glutamide</b>	0.3	Stabilizer
	<b>ELDEW™ PS-203R</b>	<b>Phytosteryl/Octyldodecyl Lauroyl Glutamate</b>	1.0	Emollient
	<b>ELDEW™ SL-205</b>	<b>Isopropyl Lauroyl Sarcosinate</b>	2.0	Emollient
	Lanette 18 *1	Stearyl Alcohol	2.2	Co-emulsifier/ Consistency agent
	Macadamia Oil *3	Macadamia Ternifolia Nut Oil	4.0	Emollient
E	Latic Acid (85%) *4	Latic Acid	0.15	pH Adjuster
	<b>PRODEW™ 500 (50%)</b>	<b>Sodium PCA (and) Sodium Lactate (and) Arginine (and) Aspartic Acid (and) PCA (and) Glycine (and) Alanine (and) Serine (and) Valine (and) Proline (and) Threonine (and) Isoleucine (and) Histidine (and) Phenylalanine (and) Water</b>	2.0	Moisturizer
	Prevint MCI *5	Methylchloroisothiazolinone (and) Methylisothiazolinone	0.1	Preservative
	Fragrance Strong Hair (RB 191714) *6	Perfume	0.4	Perfuming
	Total			100.0

\*1 BASF; \*2 Solvay; 3\*Biovital; 4\*Mapric; 5\*Thor; 6\*Robertet.

### <PROCEDURE>

1. Heat Phase A to 80°C.
2. Add Phase B into Phase A and homogenize.
3. Add Phase C into the phase (A+B).
4. Heat Phase D to 120°C and cool down to 80°C. Add Phase D into the phase (A+B+C) and homogenize (7,000 rpm).
5. Cool down the formulation with slow stirring (300 rpm). When reaching 45°C, add the ingredients of Phase E, one by one and homogenize.

### <PHYSICAL PROPERTIES and STABILITY>

Appearance : Emulsion, White.

pH : 4.0 – 4.5

Viscosity : 4,119 cP. (Viscometer Brookfield LVDVE, 60rpm, S64, 30 sec, 22°C)

Stability : 5°C, 25°C and 45°C for 1 month

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