

**HAIR CONDITIONER LLCB-13ZN-2**

Hair conditioner formulation with **AJIDEW ZN-100**:

**AJIDEW ZN-100** controls sebum secretion<sup>[1]</sup>

and shows mild antifungal activities against fungus that cause dandruff<sup>[2]</sup>.

(Technical Data Sheet No. [1]1001-0661E, [2]1001-0650E, 1001-1310E)

	(wt%)	
A	BEHENTRIMONIUM CHLORIDE (80%)*1	1.3 Hair Conditioning Agent
B	CETYL ALCOHOL*2	6.0 Emulsion Stabilizer
C	STEARAMIDOPROPYL DIMETHYLAMINE*3	0.2 Dispersant
	GLYCERINE	8.0 Moisturizer
	<b>GLUTAMIC ACID</b>	<b>0.3</b> pH Adjuster
	PRESERVATIVE	q.s.
	WATER	Balance
D	<b>AJIDEW ZN-100</b>	<b>0.5</b> Sebum Control, Antimicrobial Agent
	WATER	4.5
E	FRAGRANCE	q.s.
		100.0

- 1 Dissolve part D in advance.
- 2 Dissolve part B at 70-80°C.
- 3 Add part A to dissolved part B at 70-80°C.
- 4 Dissolve part C at 70-80°C.
- 5 Add part C to part B at 80°C with stirring and emulsify with homomixer at 3000rpm, 3min.
- 6 Cool down to 45°C with gentle stirring, and add part D.
- 7 Cool down to 45°C with gentle stirring, and add part E.
- 8 Cool down to room temperature with stirring.

- \* 1 LIPOQUAD 22-80                      LION SPECIALITY CHEMICALS  
 \* 2 KALCOL 6870                          KAO  
 \* 3 NIKKOL AMIDOAMINE MPS        NIKKO CHEMICALS

pH            4.2

Viscosity 15,000-35,000 mPa.s (B type, Rotor No.4, 6rpm, 30sec., 25°C)

Stability 50°C, 25°C, 0°C, -5°C, Cycle(-5°C~40°C) for 3 Months

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