



YUCCA SARSAPONIN

PURE YUCCA SCHIDIGERA JUICE

PRODUCT FORMULATION SHAMPOO

YUCCA SHAMPOO

This unique shampoo was formulated utilizing as many "naturally derived" ingredients as possible, including the pure juice of *Yucca schidigera* (**YUCCA SARSAPONIN**) at 20%. The deep rich amber color and the pleasant molasses-like odor of the shampoo are the sole result of the Yucca juice. Additionally, the Yucca lends secondary surface activity to the detergent system, boosting cleansing and foaming properties.

This mild shampoo has "no tear" properties, leaving the hair "squeaky" clean and glossy, yet full-bodied and manageable.

<u>INGREDIENTS</u>	<u>%W/W</u>
A. DEIONIZED WATER	33.80
PEG-80 JOJOBA	4.00
B. DISODIUM EDTA	0.10
STANDAPOL A (HENKEL)	ALS 30% 21.00
CAPB	COCAMIDOPROPYL BETAINE 5.00
CROVOL A-70	PEG-60 ALMOND GLYCERIDES 2.00
APG-625 (HENKEL)	LAURYL POLYGLUCOSE 12.00
<i>Yucca Sarsaponin</i> ² (DKI)	YUCCA EXTRACT 20.00
CRODASONE W (CRODA)	WHEAT PROTEIN/POLYSILOXANE 2.00
	COPOLYMER
C. DOWICIL 200 (DOW)QUATERNIUM-15	<u>0.10</u>
100.00 ADJUST pH TO 5.5 ± .2 WITH LACTIC ACID/NaOH OR CITRIC ACID	

- I. Heat water to 75 C & add PEG-80 Jojoba with slow agitation.
Turn off heat.
- II. Add ingredients of (B) in order to (A) with propeller agitation.
Cool to 40 C.
- III. Add (C) to (A) (B) at 40 C with propeller agitation. Cool to room temp.

Some additional "natural" formulation ideas might include:

1. Guar Bean or Ricinoleic (Castor Oil) derived quats for additional conditioning properties.
2. "Xanthan Gum" or "Algin" as viscosity modifiers and additional conditioning properties.