Sulfate-free shampoo

**Phase** | **Ingredient** | **Wt.%**
---|---|---
A | Deionized water | 33.82%
 | Disodium EDTA | 0.05%
 | Sodium C14-16 olefin sulfonate | 45.00%
 | PEG-120 methyl glucose dioleate | 1.50%
 | Zemea® propanediol | 4.75%
B | Cocamide MEA | 3.00%
 | Cocamidopropyl betaine | 10.00%
C | Preservative | 0.06%
 | Glycol distearate | 1.50%
D | Citric acid (20%) | 0.32%
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**Total** | **100.00%**

**Procedure**
1. Combine phase A and slowly mix at 75°C.
2. Slowly add phase B.
3. Mix at 75°C until uniform.
4. Cool to 25°C.
5. Add phase C and continue mixing.
6. Adjust pH to 6.0-6.5 with phase D.

**Product features**
1. Less reduction in viscosity
2. High stability
3. Good foam height and drainage