

Supplementary Information

Effect of Processing Parameters on the Microstructure, Stability, and Sensorial Properties of an Emulsion Cream Formulation

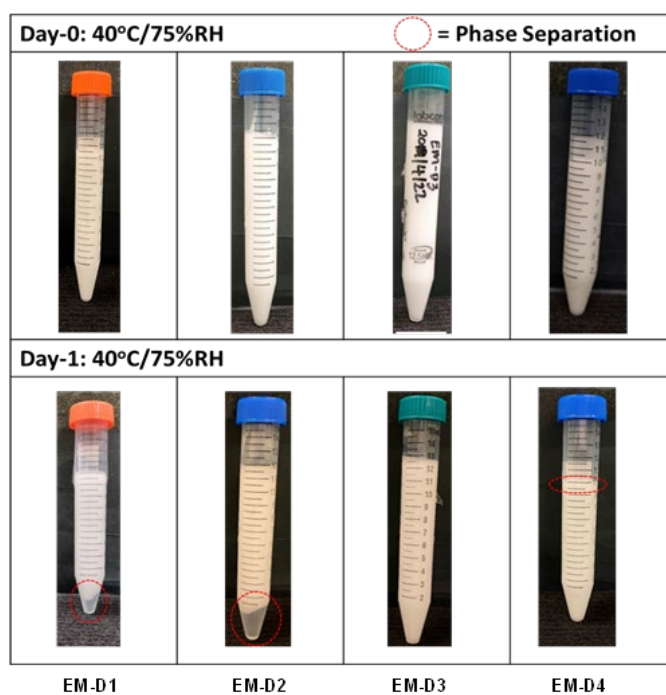


Figure S1. Bottle tests of EM-D1 to EM-D4 at 40°C/75%RH

Table S1. Sensorial properties of emulsion cream samples

| Sample | Instability Index (IS) | Firmness (g) | Adhesive force (g) | Stringiness work done (mJ) | Friction coefficient (CoF) |
|-----------|------------------------|--------------|--------------------|----------------------------|----------------------------|
| EM-D3A-S | 0.059 ± 0.003 | 16.5 ± 0.3 | 8.3 ± 0.6 | 0.51 ± 0.04 | 0.056 ± 0.012 |
| EM-D3A1-S | 0.071 ± 0.003 | 13.0 ± 0.6 | 6.4 ± 0.2 | 0.36 ± 0.03 | 0.050 ± 0.019 |
| EM-D3B-S | 0.080 ± 0.003 | 16.9 ± 1.9 | 6.9 ± 0.5 | 0.36 ± 0.09 | 0.079 ± 0.001 |
| EM-D3B1-S | 0.092 ± 0.005 | 9.87 ± 0.4 | 5.1 ± 0.2 | 0.30 ± 0.05 | 0.066 ± 0.009 |
| EM-D3C-S | 0.111 ± 0.003 | 15.5 ± 0.5 | 5.5 ± 0.4 | 0.37 ± 0.03 | 0.069 ± 0.016 |
| EM-D3C1-S | 0.114 ± 0.003 | 10.2 ± 0.7 | 4.4 ± 0.3 | 0.29 ± 0.01 | 0.056 ± 0.008 |

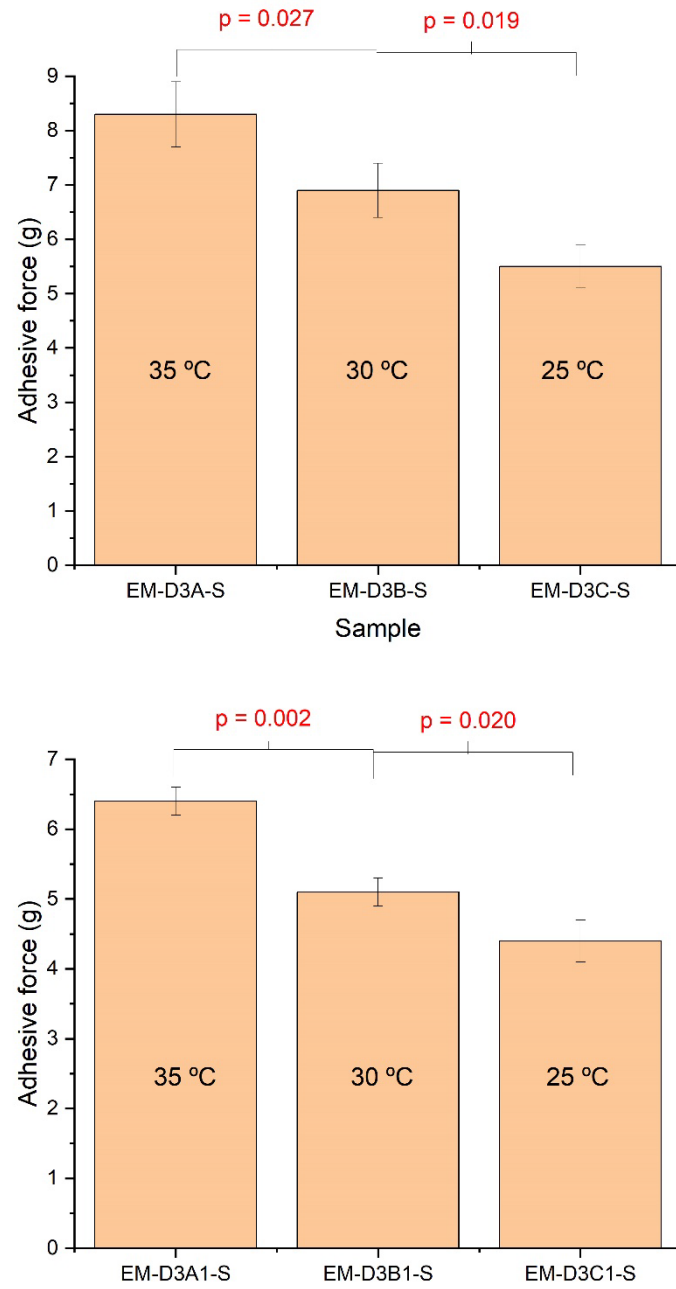


Figure S2. Adhesiveness values of emulsion cream samples prepared at different holding temperature.

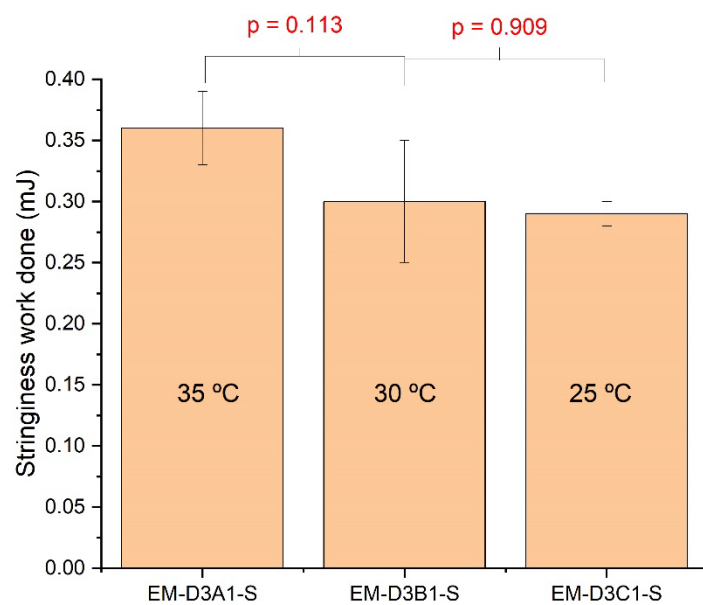
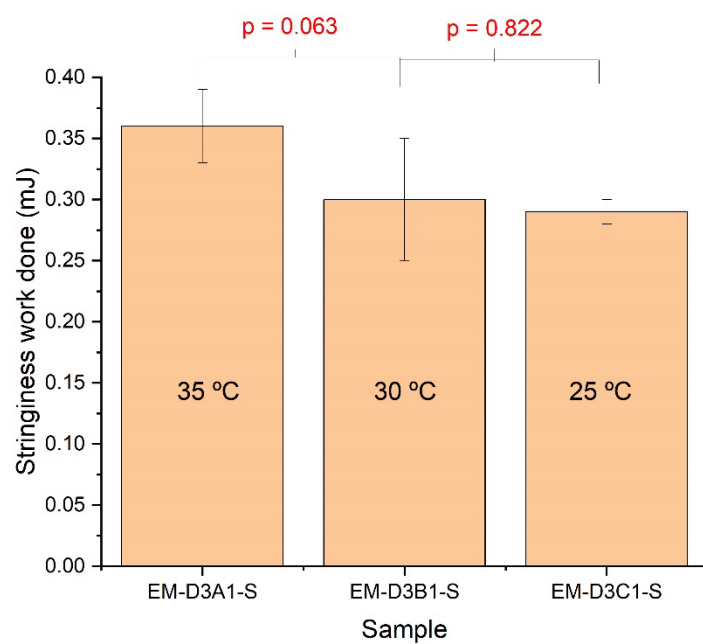


Figure S3. Stringiness work done values of emulsion cream samples prepared at different holding temperatures.

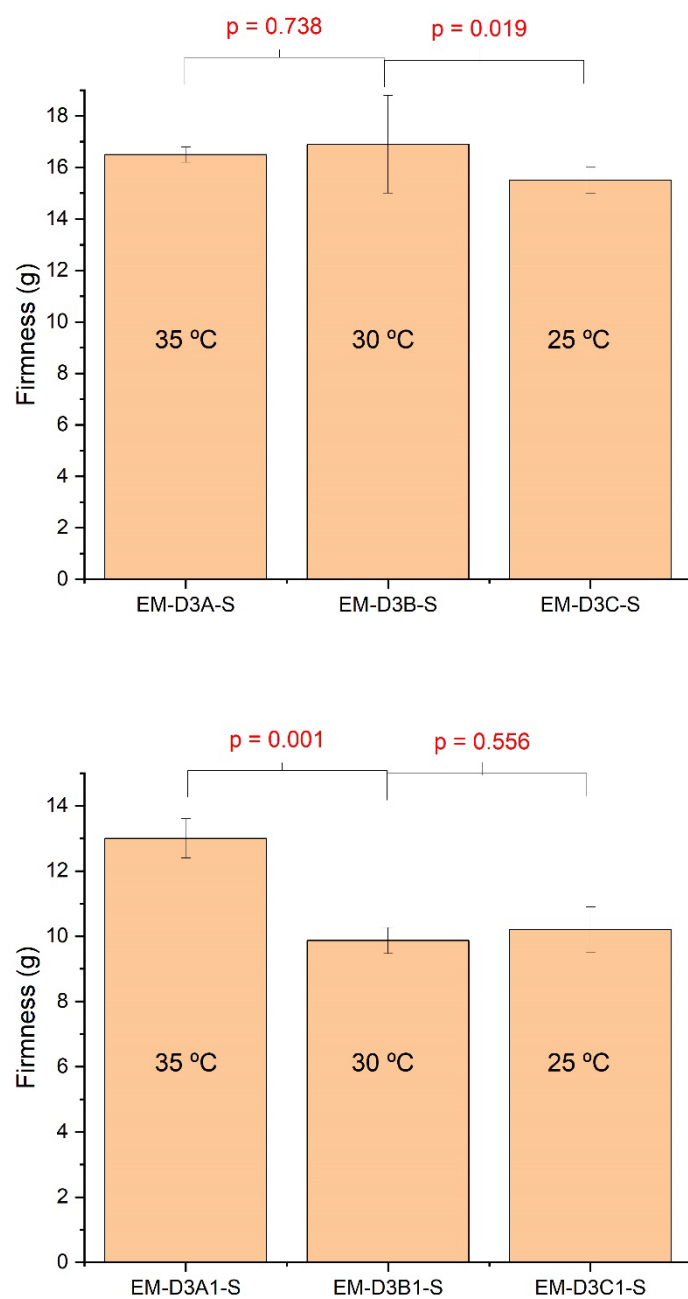


Figure S4. Firmness values of emulsion cream samples prepared at different holding temperatures.

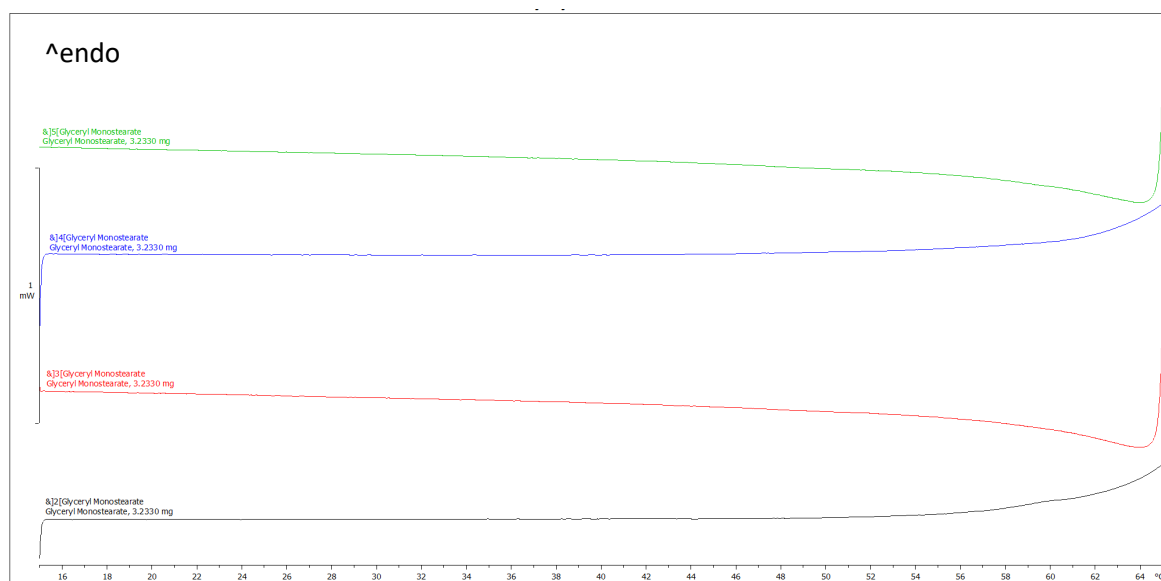


Figure S5. DSC thermogram of glyceryl monostearate.