

## Supplementary Material

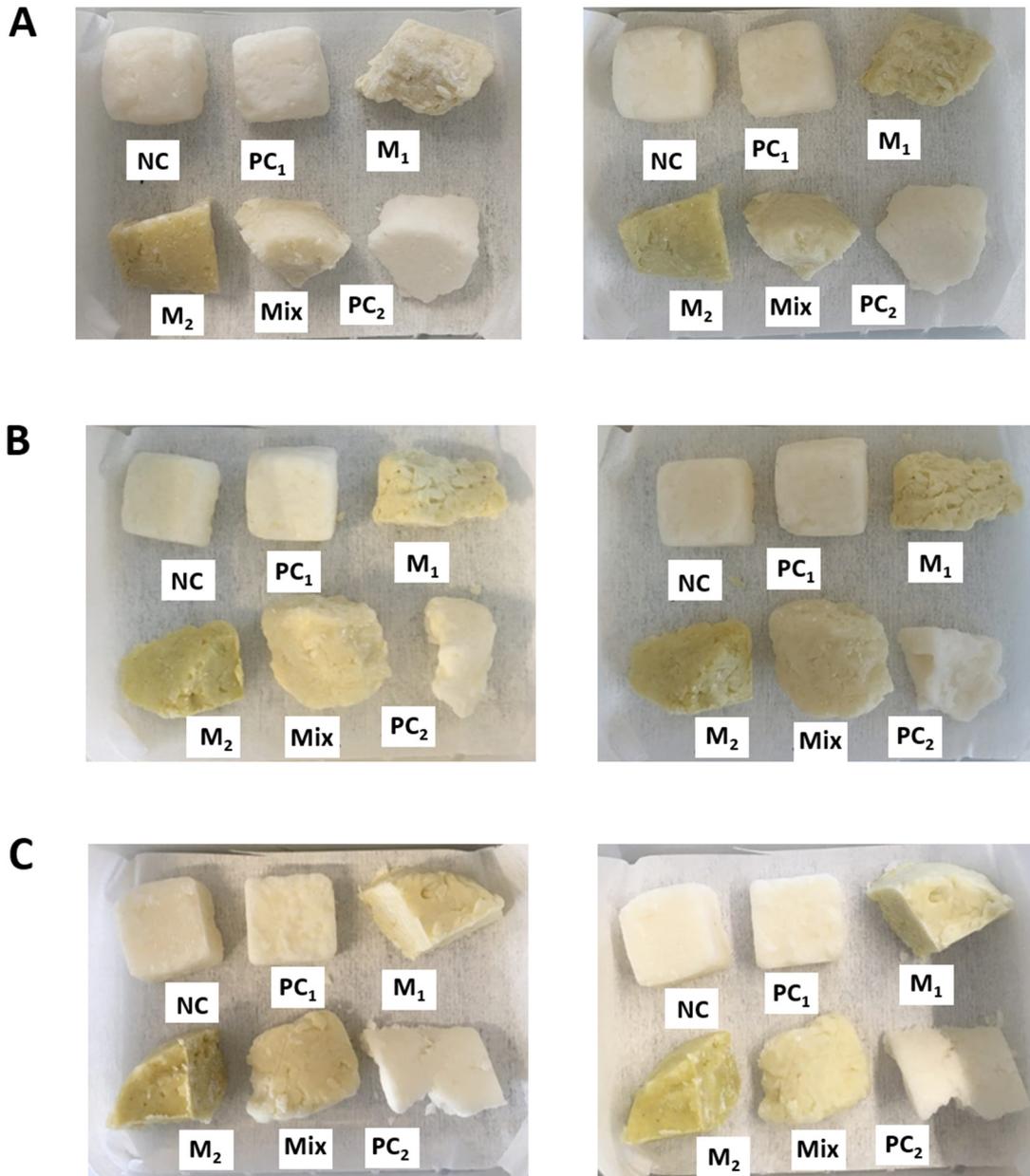
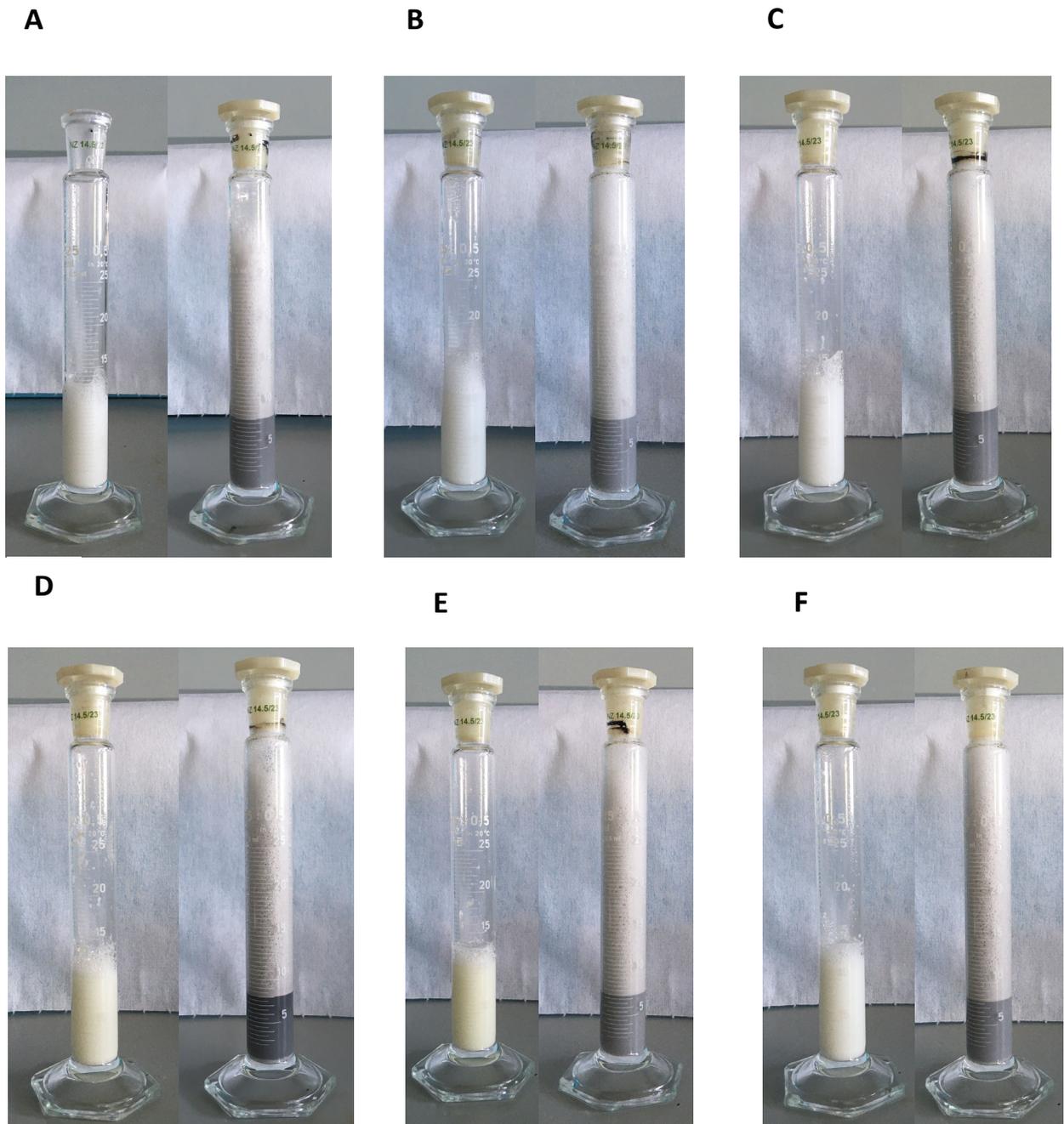
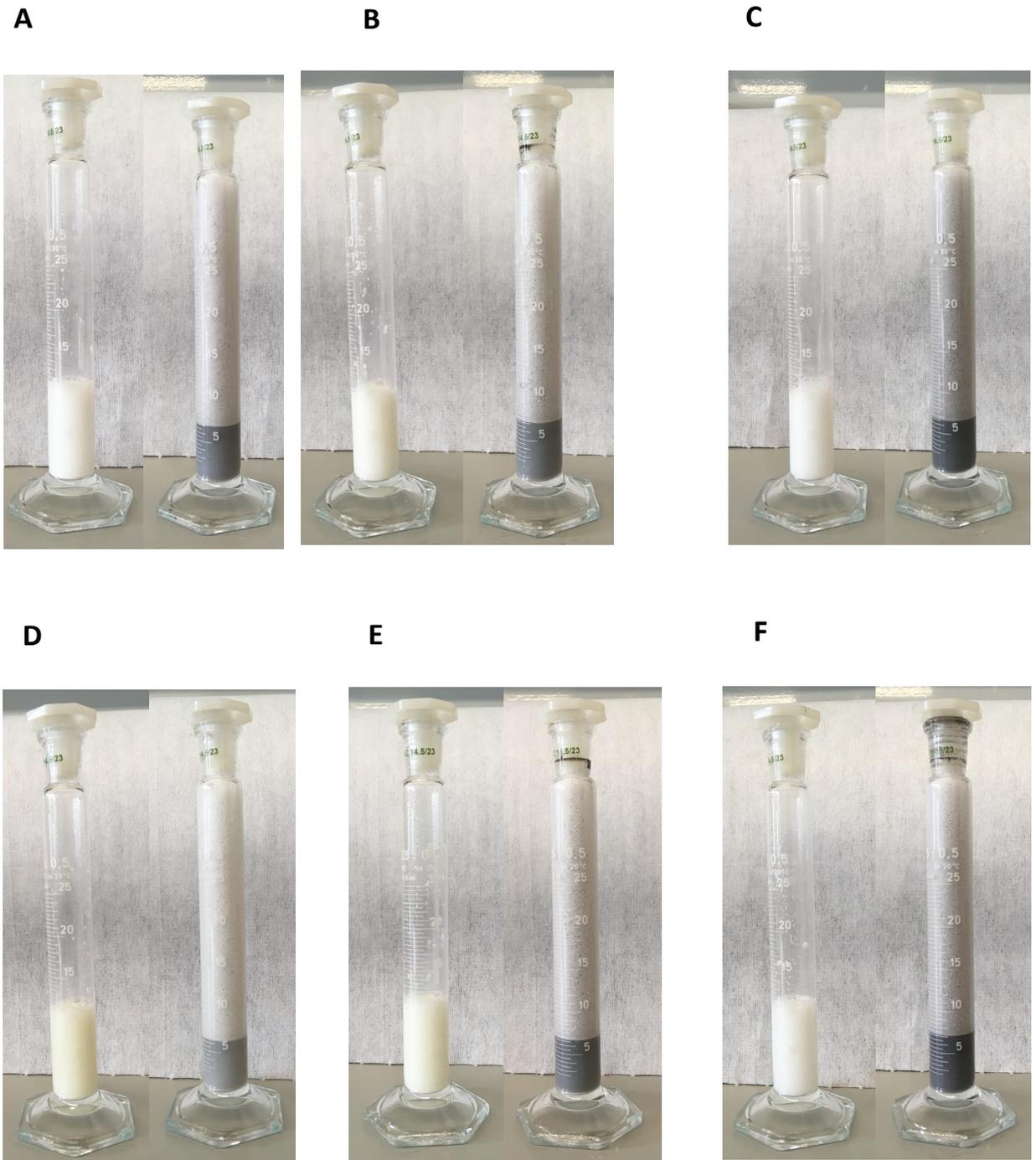


Figure S1. Results of the accelerated thermal stability test to the solid shampoos throughout the study period. (A): t<sub>0</sub> – after production; (B): t<sub>1</sub> - two weeks after production; (C): t<sub>2</sub> – four weeks after production.



*Figure S2. Results of the dirt dispersion test for t0 – after production of the solid shampoos. (A): Formulation NC; (B): Formulation PC<sub>1</sub>; (C): Formulation PC<sub>2</sub>; (D): Formulation M<sub>1</sub>; (E): Formulation M<sub>2</sub>; (F): Formulation Mix.*



*Figure S3. Results of the dirt dispersion test for t1 – 2 weeks after production of the solid shampoos. (A): Formulation NC; (B): Formulation PC<sub>1</sub>; (C): Formulation PC<sub>2</sub>; (D): Formulation M<sub>1</sub>; (E): Formulation M<sub>2</sub>; (F): Formulation Mix.*

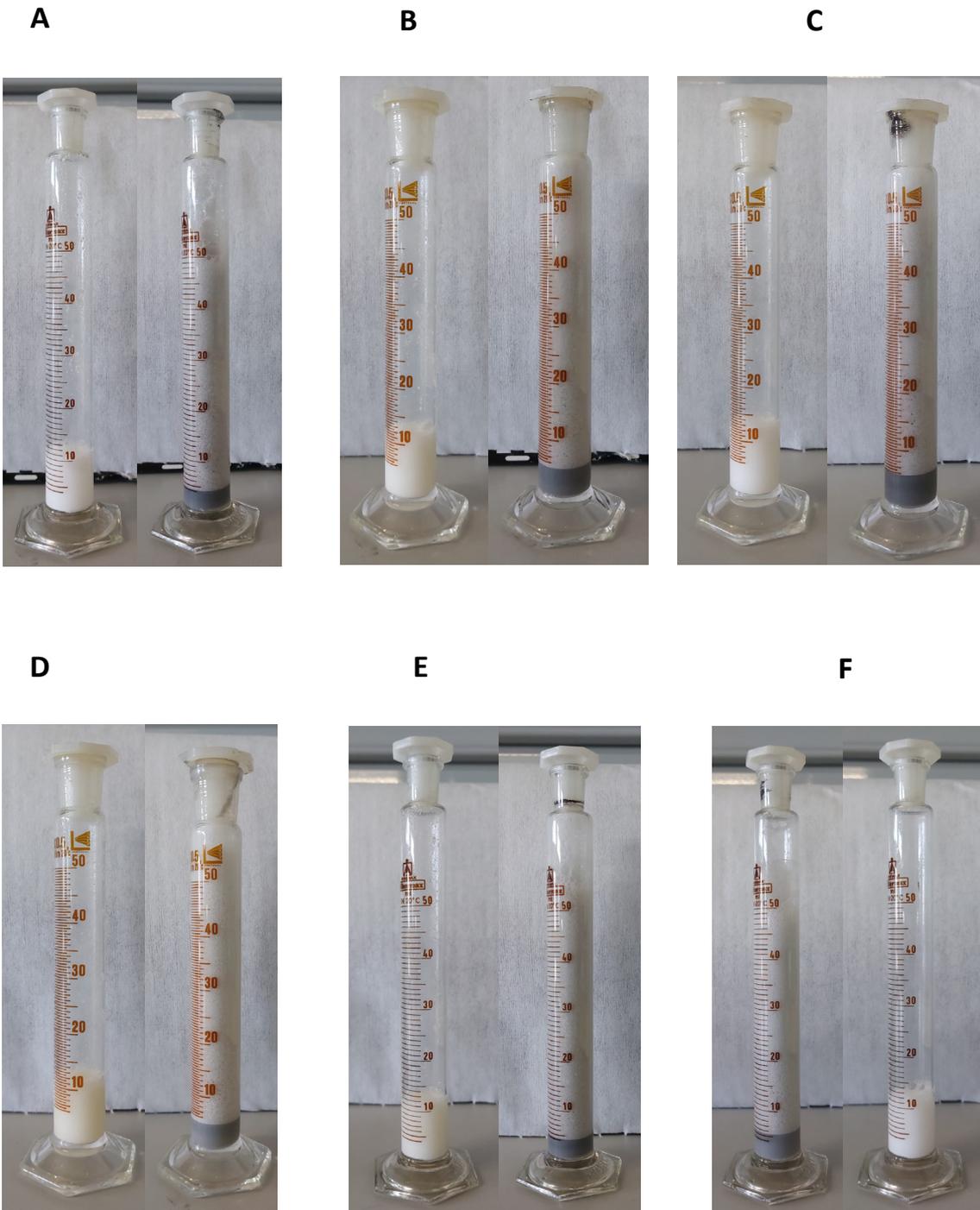


Figure S4. Results of the dirt dispersion test for  $t_2$  – 4 weeks after production of the solid shampoos. (A): Formulation NC; (B): Formulation PC<sub>1</sub>; (C): Formulation PC<sub>2</sub>; (D): Formulation M<sub>1</sub>; (E): Formulation M<sub>2</sub>; (F): Formulation Mix.