

Pickering emulsions stabilized by calcium carbonate particles: a new topical formulation

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Methods

Design of Experiments (DoE)

Table S1. Design of Experiments (CC-stabilized emulsion optimization).

| Exp Name | Run Order | Design Matrix | | Experimental Matrix for formula optimization | | |
|----------|-----------|---------------|-----------|--|------------|-------------|
| | | CC | Oil phase | %CC | %Oil phase | % Aq. Phase |
| N1 | 1 | -1 | -1 | 2.50 | 10.00 | 87.50 |
| N2 | 6 | 1 | -1 | 7.50 | 10.00 | 82.50 |
| N3 | 11 | -1 | 1 | 2.50 | 30.00 | 67.50 |
| N4 | 9 | 1 | 1 | 7.50 | 30.00 | 62.50 |
| N5 | 7 | -1.15 | 0 | 2.13 | 20.00 | 77.87 |
| N6 | 10 | 1.15 | 0 | 7.87 | 20.00 | 72.13 |
| N7 | 2 | 0 | -1.15 | 5.00 | 8.53 | 86.47 |
| N8 | 8 | 0 | 1.15 | 5.00 | 31.47 | 63.53 |
| N9 | 3 | 0 | 0 | 5.00 | 20.00 | 75.00 |
| N10 | 4 | 0 | 0 | 5.00 | 20.00 | 75.00 |
| N11 | 5 | 0 | 0 | 5.00 | 20.00 | 75.00 |



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