**Table S10** Characterization of transgelosome, plain gel, and placebo transgelosome

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Formulations | TFG F1 | TFG F2 | TFG F3 | Placebo TFG F2 | Plain Gel | Omnigel |
| Appearance | White color | White color | White color | White color | Pale yellow | White color |
| Consistency and homogeneity | Gel like consistency with smooth and homogeneous properties | Gel like consistency with smooth and homogeneous properties | Gel like consistency with smooth and homogeneous properties | Gel like consistency with smooth and homogeneous properties | Gel like consistency with smooth and homogeneous properties | Gel like consistency with smooth and homogeneous properties |
| Spreadability (cm) | 5.467 ± 0.047 | 5.034 ± 0.048 | 4.547 ± 0.031 | 5.103 ± 0.091 | 5.23 ± 0.089 | 4.941 ± 0.417 |
| Extrudability (g) | 141.217 ± 2.157 | 154.372 ± 1.428 | 164.739 ± 2.357 | 150.367 ± 1.445 | 146.125 ± 2.147 | 155.847 ± 1.665 |
| pH | 6.725 ± 0.051 | 6.736 ± 0.018 | 6.682 ± 0.023 | 6.279 ± 0.041 | 6.652 ± 0.035 | 6.67 ± 0.035 |
| Viscosity (mPa.s) at Shear rate of 25.1/sec | 101.203 ± 2.117 | 450.042 ± 3.464 | 847.16 ± 3.837 | 426.31 ± 2.643 | 407.73 ± 2.137 | 464.19 ± 2.432 |
| Drug content (%) | 98.356 ± 1.258 | 98.647 ± 1.124 | 97.899 ± 2.237 | 0 | 98.436 ± 1.159 | -- |
| Syneresis (%) | 1.834 ± 0.012 | 0.671 ± 0.001 | 0.554 ± 0.0.004 | 0.832 ± 0.002 | 0.941 ± 0.003 | 0.604 ± 0.001 |

Results were represented as mean ± standard deviation (n = 3)

TFG F1-F3 Transgelosomes formulations with different concentrations of Xanthan gum; Placebo TFG F2: placebo transgelosome