**Table S9** Composition of transgelosomes, placebo transgelosome, and plain gel

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Ingredients | Formulations | | | | |
| TFG F1 | TFG F2 | TFG F3 | Placebo TFG F2 | Plain Gel |
| PLFEE (mg) | -- | -- | -- | -- | 250 |
| Xanthan Gum (% w/v) | 1 | 3 | 5 | 3 | 3 |
| Methyl Paraben (% w/w) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Propyl Paraben (% w/w) | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Propylene glycol (% w/w) | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 |
| 250 mg PLFEE loaded optimized transferosome (optimized TFs) (mL) | 10 | 10 | 10 | -- | -- |
| Placebo optimized TFs (mL) | -- | -- | -- | 10 | -- |
| Water (mL) | -- | -- | -- | -- | 10 |

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