

Table 1. Physicochemical characteristics of GNPs, RES-trans-GNPs and RES-nanoemulsion-GNPs.

Formulation	Size (nm)	PDI	Zeta potential(mV)	%RES content	% Permeated
GNPs	10.30±2.4	0.130±0.05	-15±1.4	-	-
RES-trans-GNPs	94.93±5.6	0.194±0.08	-28.7±4.7	69.53±3.82	81.29±2.64
RES-nanoemulsion-GNPs	20.36±4.3	0.26±0.04	-18±2.6	95.72±5.34	54.64±2.75

Table 2. Ex vivo permeation parameters of RES-trans-GNPs and RES-nanoemulsion-GNPs versus pure RES-suspension.

Formulation	Flux (Jss) ($\mu\text{g cm}^{-2} \text{ hr}^{-1}$)	Permeation coefficient (cm hr^{-1})
Pure RES-suspension	0.240633748	0.00024
RES-trans-GNPs	0.406187108	0.00040
RES-nanoemulsion-GNPs	0.368063694	0.00036

