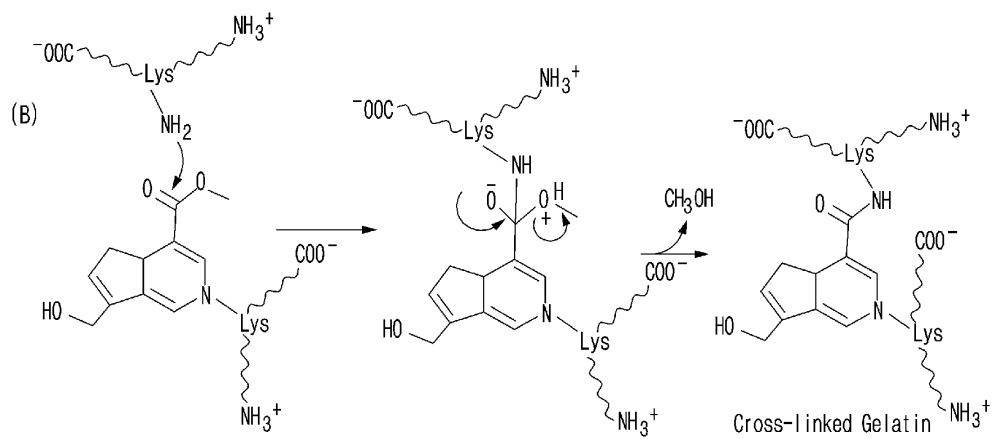


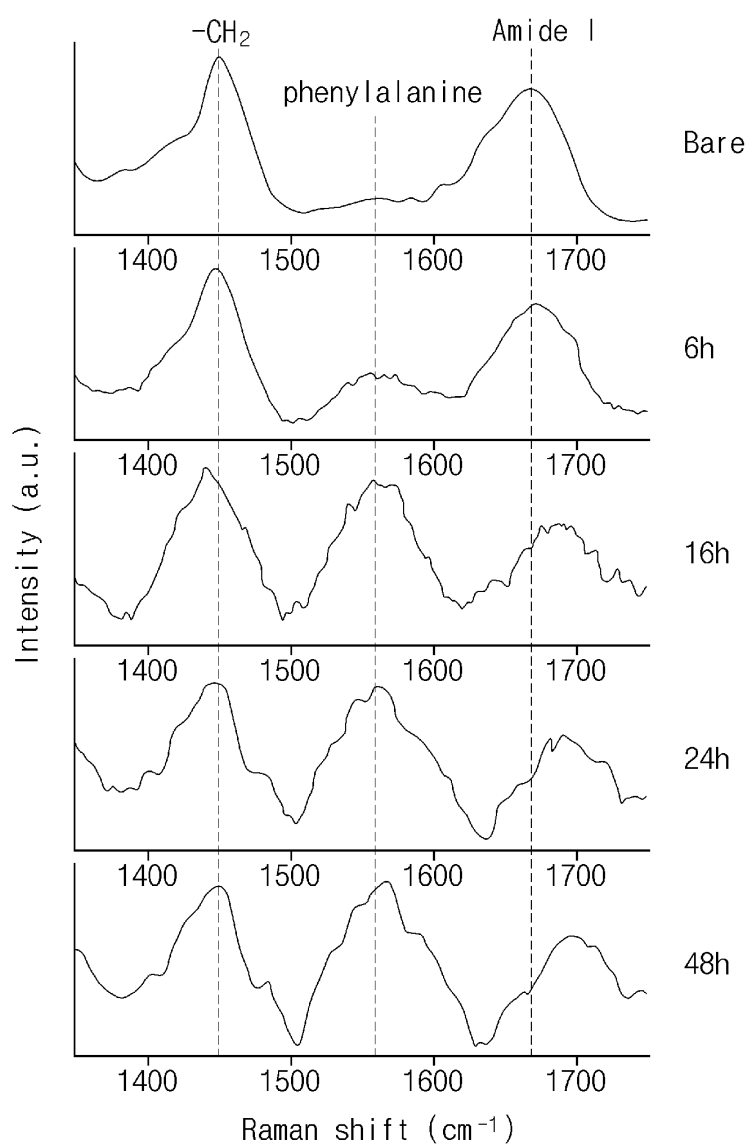


(A)

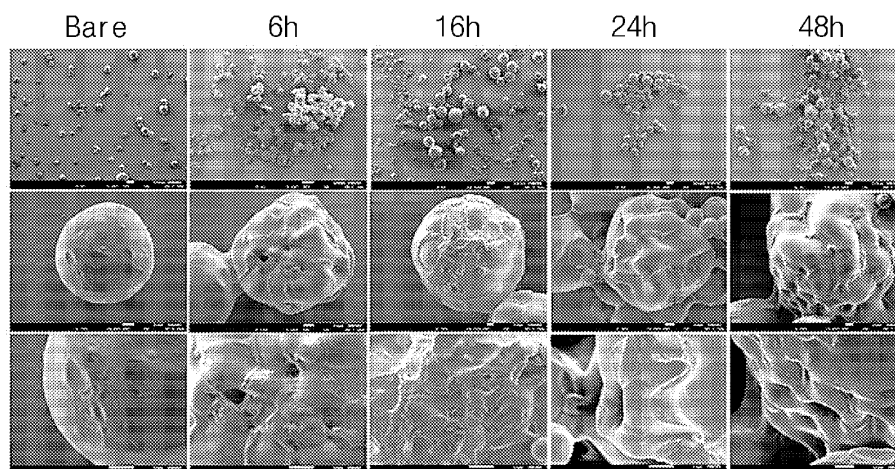
Chemical reaction scheme (A) illustrating the conjugation of Genipin to a Lysine residue on Gelatin. The reaction proceeds in two steps: 1) Nucleophilic attack of the Lysine amino group (NH_2) on the carbonyl carbon of Genipin, displacing a hydroxide ion (OH^-). 2) Dehydration (H_2O) of the intermediate to form a Schiff base (imine) linkage between the Lysine residue and Genipin. The final product is a covalent conjugate where Genipin is linked to the Lysine residue via an imine bond.



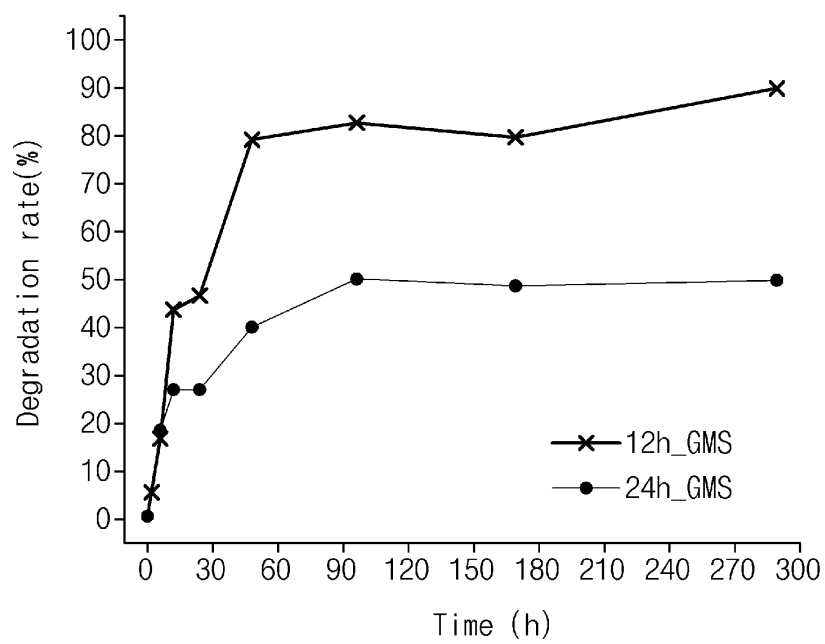
[도2b]



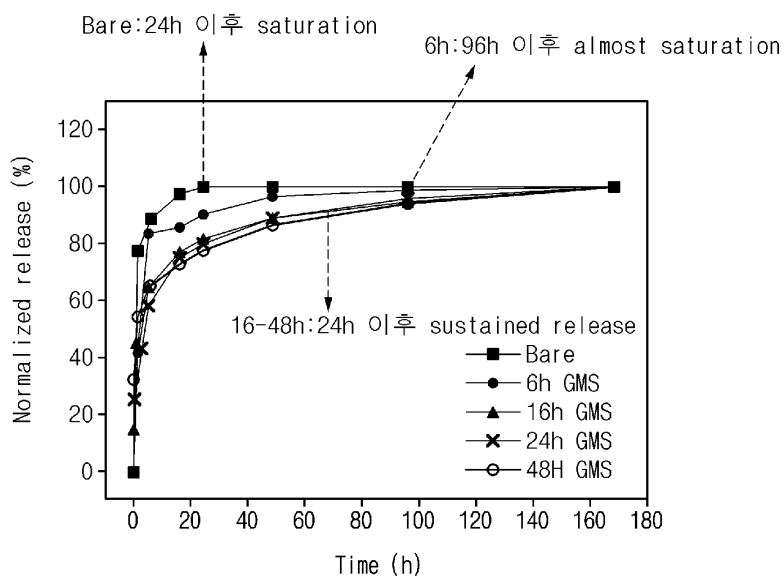
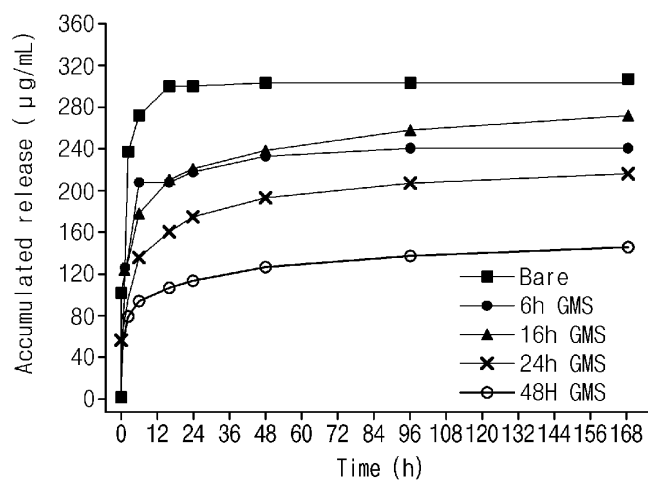
[도2c]



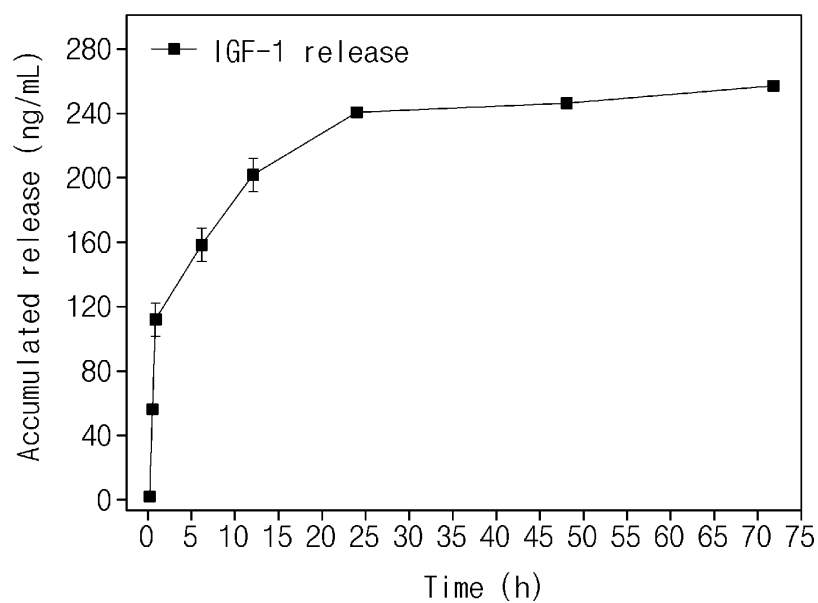
[도3]



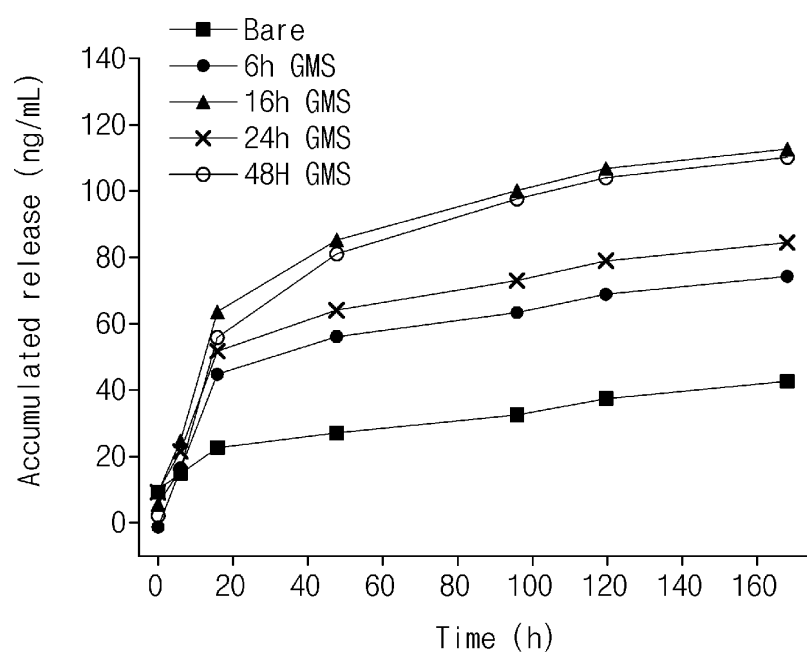
[도4a]



[도4b]

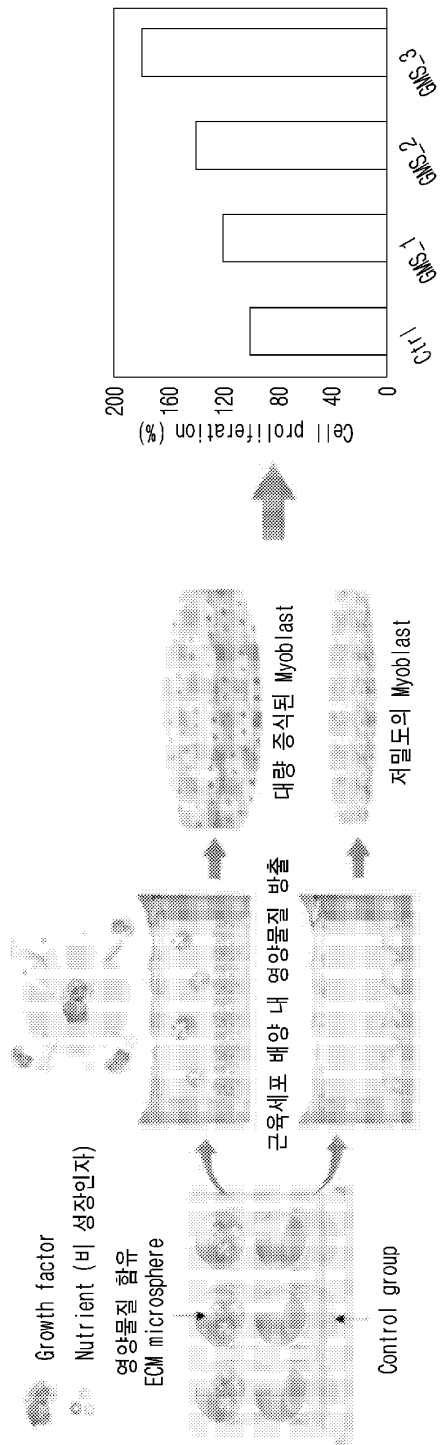


[도4c]

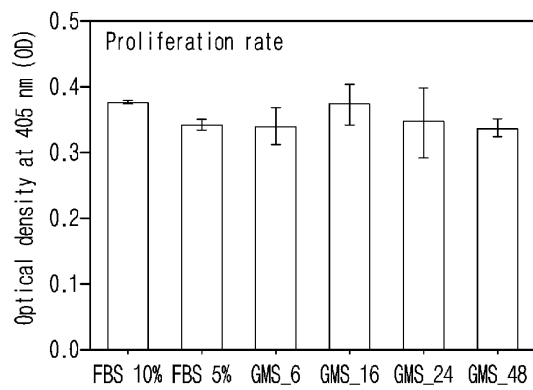
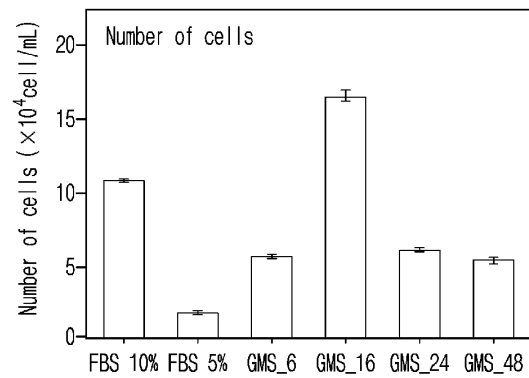
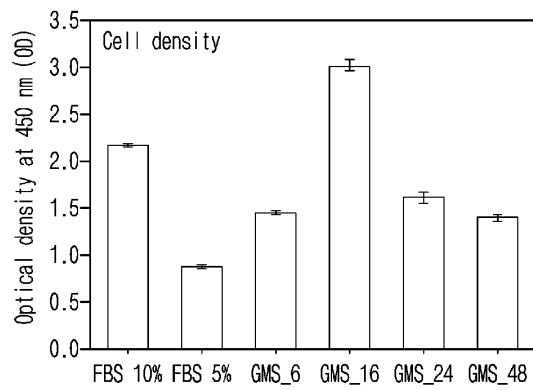


	Bare	6h_GMS	16h_GMS	24h_GMS	48h_GMS
Release amount (ng/mL)	13.8	42.7	112.1	84.5	110.9

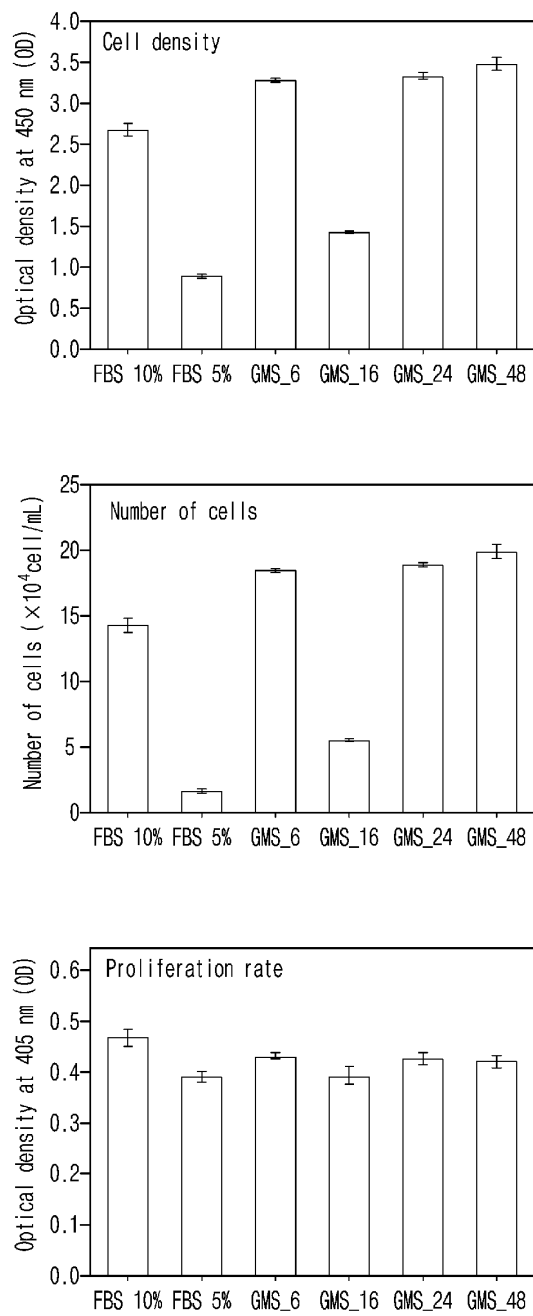
[도5]



[도6]



[도7]



[도8]

