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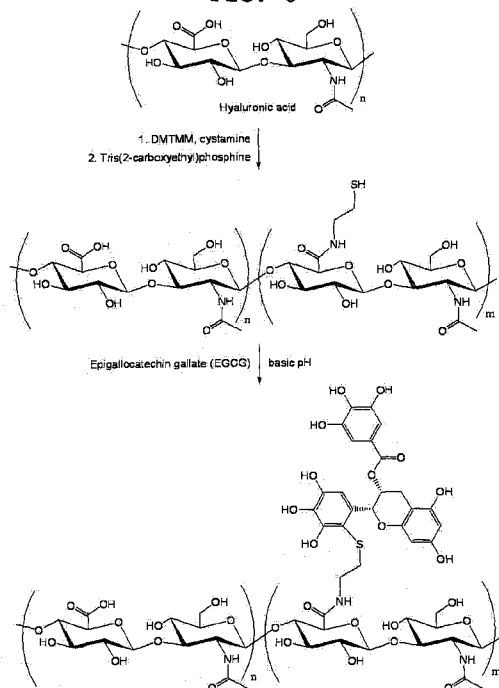
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(54) Title: POLYMER-FLAVONOID CONJUGATES AND HYDROGELS FOR BIOMEDICAL APPLICATIONS

FIG. 6



(57) Abstract: There is provided polymer-flavonoid conjugates. Flavonoid-grafted and flavonoid-terminated polymer conjugates are disclosed according to the invention. The linkage of flavonoids to the polymers has been achieved via thiol linkages. The inventive processes allow for making of the conjugates in high yield avoiding complex purification steps. The conjugates can be easily autoxidized to hydrogels with uses in many biomedical applications where a higher stability of the flavonoid is necessary. The hydrogels can be potentially used as viscosupplement, anti-adhesion film or dermal filler.

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