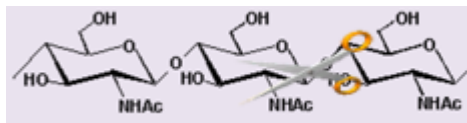
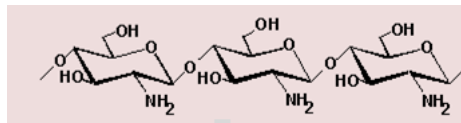


Shrimp chitin



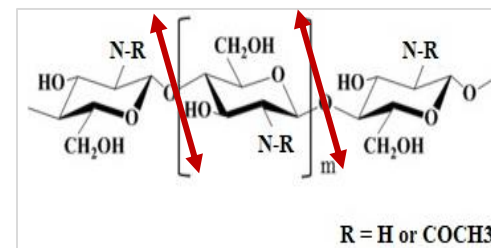
Chitosan

(M_w = 1244.7 kDa, AD = 7.6%)



Chitosan depolymerization

(HCl 6 M, at 70 °C, 2 h)



**High-Mw
Chitosan-derivatives**

**Low-Mw
Chitosan-derivatives**

Improved physicochemical characteristics
(SEC-HPLC, MALDI-TOF MS, DA, FTIR, XRD,
functional properties (Viscosity, solubility))

Enhanced biological properties
(Antioxidant and antimicrobial activities)