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Chitosan nanoparticles on the improvement of thermal, barrier, and mechanical properties of high- and low-methyl pectin films

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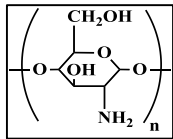
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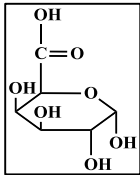
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Chitosan



Pectin

**Nanoparticle
synthesis**

MIXER

Nanocomposite Films



**LDM
pectin/CSNP**

**Casting of
pectin-based films**



**HDM
pectin/CSNP**

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