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Rheological Properties of Deesterified Pectin with Different Methoxylation DegreeXiao Hua^{1,2,*}, Hui Yang^{1,2}, Ping Din², Kunrui Chi², Ruijin Yang^{1,2}

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Abstract

High methoxylated citrus pectin was deesterified by alkaline or pectin methylesterase (PME) to produce pectin with various methoxylation degree (DM) from ~50% to <10%. Alkaline deesterification ($p < 0.05$) was effectively achieved at $\text{pH} > 10$. At $\text{pH} 12$ pectin DM could be reduced to lower limit of $15.91 \pm 2.55\%$ under 4°C after 300 min but further to $6.81 \pm 1.46\%$ under 20°C within 30 min. Stronger alkaline

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