

## **Pengaruh kondisi operasi proses hidrolisis jagung manis (Zea Mays Saccharata) terhadap kandungan glukosa**

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### **Abstrak**

The aim of this research is to determine the optimal conditions of pressure and time operation of glucose content as hydrolysis product of sweet corn starch (Zea Mays Saccharata) and acid. Glucose content (%) converted to value by using Luff-Schoorl method. Research variables were pressure (10, 15, 20, 25, 30 psi) and time operation (30, 60, 90, 120, 180 minutes). The maize particle used is 120 mesh at pH 3. The syrup content from the treatments varied from 24,5% to 49,87%. Optimal conditions of research variables at pressure 30 psi and time operation 180 minutes. Pearson Product Moment (PPM) coefficient was used as statistical tests to identify research correlation variables to glucose content. Range of PPM coefficient on time variation was  $r_{xy}$  0,8693-0,9742, and pressure variation was  $r_{xy}$  0,9814 - 0,9985.