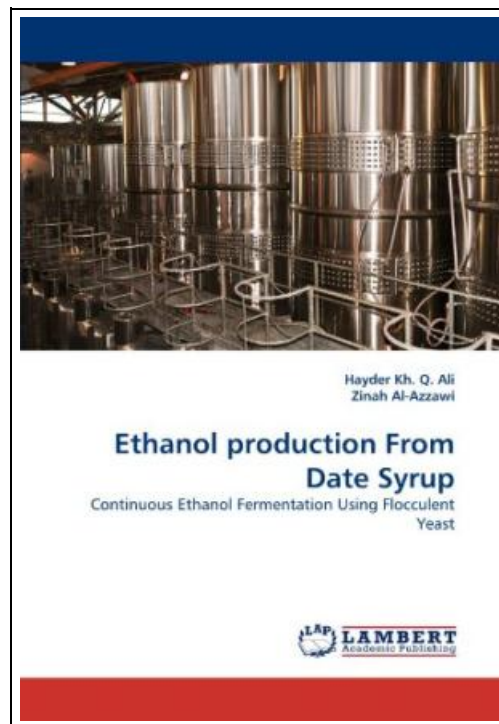


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ETHANOL PRODUCTION FROM DATE SYRUP

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Continuous Ethanol Fermentation Using Flocculent Yeast | The present investigation deals with continuous ethanol production from date syrup by using a flocculent yeast. The main portion of the system consisted of a jacketed cylindrical Pyrex glass bioreactor where the date syrup was pumped from its base and the product was received from the top. Box-Wilson composite rotatable design was constructed to obtain the proper conditions of ethanol fermentation [temperature, date syrup concentration and feeding flow rate]. It is possible to obtain from this technique a polynomial equation which describes how these variables affect ethanol production. The optimum conditions are: Temperature: 29.5° C, Date syrup concentration: 64.47 mg/cm³, Feeding flow rate: 200 cm³/hr. The study shows that flocculent yeast is more efficient in continuous ethanol production process when it is compared with non-flocculent yeast. Flocculent yeast cells are able to aggregate and make flocs so that, the cells will remain in the column. Date syrup was used in this research as a sugar substrate because it was the available sugar source in Iraq and usually used in ethanol production. Maximum conversion of date syrup to ethanol is 92.99%. | Format: Paperback | Language/Sprache: english | 88 pp.

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