

APPLIKATION NOTE No°: 2808005

Analysis of Total Sugar Content in juice of Sweet Sorghum

Recommended instruments: Refractometers of ATR-series

The stem Juice of sweet sorghum is rich in fermentative sugar and is a desirable alcoholic fermentation material and commonly used for the Etanol production.

The analysis of total sugar content in juice of sweet sorghum is very inconvenient in practice. So a method has been developed to measure the brix degree with a laboratory refractometer and then converting to the total sugar content. A correlation analysis for the brix degree and total sugar of sweet sorghum stem juice had been conducted that they had the following significant linear correlation

$$y = -10.24 + 1.974 x$$

were x is the brix value.

References:

Natural Resources Management and Enviroement Department „Integrated Energy systems in China – the cold Northeastern region experience...“, part 4: Ethanol production from swet sorghum“