

GODBY, STEVEN N.*, RUSSELL DILLEY and LARRY GHOLSON, Western Sugar Company, 20th and East Overland, Scottsbluff, Nebraska, 69361. - Brei filtrate analysis for melassigenic substances using a rapid flow analyzer linked to a flame photometer.

The melassigenic compounds, sodium, potassium and alpha-amino nitrogen are of great concern to all sugar processing companies. To date, several instruments have been incorporated into tare labs and research labs to measure them, all of them being very expensive to install, maintain and use. The Rapid Flow Analyzer in combination with a flame photometer is capable of measuring melassigenic substances from a 4 ml sample of clarified brei filtrate at a rate of 100-110 samples/hour for a reasonable cost per sample. The samples can be analyzed fresh from the filtering process or frozen for later analysis. The equipment is manufactured in the U.S.A. and in most cases replacing parts, technical assistance, and repairs can be accomplished on a timely basis.