Title Performance of a portable near infrared instrument for Brix value determination of intact mango fruit

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Abstract

The performance of a commercially-available, portable NIR instrument "FT20" for fruit quality evaluation was investigated using mango fruits. The calibration result for the FT20 was compared with the result for the Foss NIR Systems 6500. Partial least squares (PLS) regression was used to make the calibration equations. It was found that the calibration equation using spectral data obtained with the FT20 had similar accuracy to that using Foss NIR Systems 6500 spectra. The *SEP*s of calibrations were 0.40°Brix for both instruments.