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ISOLATION AND STRUCTURE ELUCIDATION OF DAIDZEIN AND GENISTEIN FROM *SIRAITIA GROSVENORII*

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ABSTRACT

Two isoflavones were isolated by the purification of the commercial extract of Luo Han Guo (Siraitia grosvenorii) on a C-18 column using a Biotage Flash Chromatography system. The structure of the isolated compounds were characterized as 4', 7-dihydroxyisoflavone (Daidzein) and 4',5,7,-trihydroxyisoflavone (Genistein) on the basis of extensive NMR and Mass spectral data. The complete ^{1}H and ^{13}C NMR spectral assignments are herewith assigned for Daidzein and Genistein on the basis of 1D (^{1}H and ^{13}C) and 2D (COSY, HSQC, HMBC) NMR and high resolution mass (HRMS) spectroscopic data.

Keywords: *Siraitia grosvenorii, Curcubitaceae, Luo Han Guo, Isofalvones, NMR, MS*