characterization of (-) hydroxy citric acid from *Garcinia Cambogia* fruit extract. Int. J. Pharm. Res. Dev. [http://IJPRD/2010/PUB/ARTI/VOV-2/ISSUE-7/SEP/015].

11. Wu, P. W. and Pan, J. Q. 2006. Analysis of hydroxycitric acid in dietary supplements by HPLC method. Handbook of 120th AOAC International Annual Meeting & Exposition. Minnesota.

Determination of Hydroxycitric Acid in Dietary Supplements

PAI-WEN WU, CHUN-YI WU, SU-HSIANG TSENG, LIH-CHING CHIUEH AND DANIEL YANG-CHIN SHIH

Division of Research and Analysis, FDA

ABSTRACT

An improved analytical method was developed for the determination of hydroxycitric acid in dietary supplements containing *Garcinia cambogia* extract. Sample solution was adjusted to high pH 10 before cleaning up with a solid phase extract cartridge. Analysis was performed by HPLC: equipped with two connected columns eluted with ion-paired phosphate solution (pH 2.5). The hydroxycitric acid was quantified within 20 min and identified by on line photodiode array spectra. Three dietary supplements were analyzed with their hydroxycitric acid contents in the range of 13-31 mg/g.

Key words: hydroxycitric acid, dietary supplements, *Garcinia cambogia* extract, solid phase extract cartridge, HPLC