

**Liquid Chromatographic Dedection of Chlorogenic Acid
(5-O-Caffeoylquinic Acid) in various potato
(*Solanum tuberosum* L.) tubers :
Light-induced and Short-term Storage Effects**

Ö. Tokuşođlu¹ (✉) and Z. Yıldırım²

¹Celal Bayar University, Akhisar Junior College,45200, Akhisar, Manisa, TURKEY.

²Ege University, Faculty of Agriculture, Department of Field
Crops,35100,Bornova,Izmir, TURKEY

ABSTRACT

In this research. the contents of 5-caffeoylquinic acid that is an major chlorogenic acid in some potato (*Solanum tuberosum* L.) genotips as *Agria*, *Granola*, *Marfona*, *Concorde* grown in Ege Area were determined by Reversed Phase - High Performance Liquid Chromatography (RP-HPLC) with diiodarray dedection. The total chlorogenic acid contents of 4 commercial cultivars were also determined. With the exposure of these commercial cultivars to three different conditions as dark fluorescent and day-light storage for up to 15 days, influences upon chlorogenic acid contents were investigated.

Keywords: Potato (*Solanum tuberosum* L.), chlorogenic acid (5-caffeoylquinic acid), HPLC.