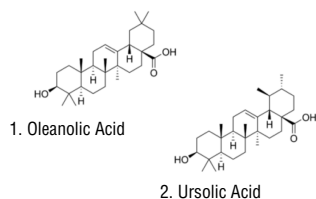
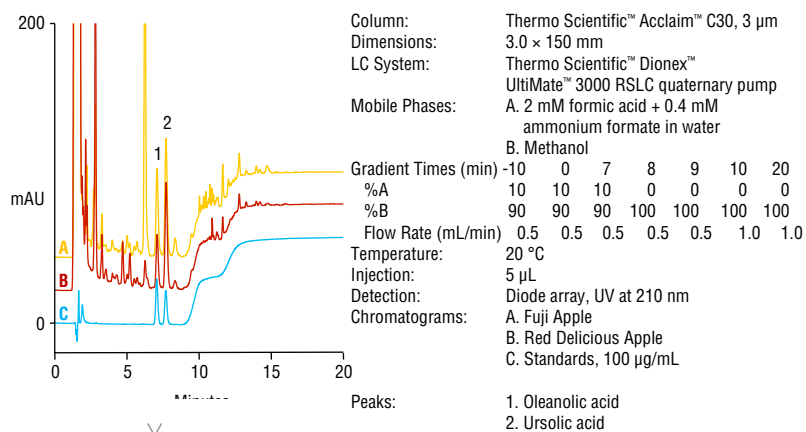


## Ursolic Acid in Apple Peel Using Acclaim C30



PB20655\_E 10/12S

Ursolic acid and related substances (oleanolic, moronic, and betulinic acids) are secondary metabolites produced in a variety of plants including apples and the Chinese herb *Oldenlandia Diffusa*. They have a number of interesting pharmacological properties, and are starting materials for new drugs. Separating ursolic acid from the isomer oleanolic acid has been reported to be difficult; using C18 columns with a variety of mobile phases, a resolution of 1.65 is the best reported in the literature.<sup>1</sup> The Acclaim C30 column offers superior shape selectivity for large molecules, and here the resolution is 2.20 or higher, and in less time than the literature reports. The spectral purity of ursolic acid is excellent at < 0.1%.

1. Liang, Z., et. al., *Journal of Food and Drug Analysis*, Vol. 17, No. 2, 2009, Pages 69-77.