

1.4.3 Orange:

Table 7 Orange Identification

Scientific classification	
Kingdom	Plantae
(unranked)	Angiosperms
(unranked)	Eudicots
(unranked)	Rosids
Order:	Sapindales
Family:	Rutaceae
Genus:	Citrus
Species:	<i>G. glabra</i>
Binomial name	
Citrus × sinensis	

Orange juice is probably the best known and most widespread fruit juice all over the world. It has high content in vitamin C natural antioxidants, such as flavonoids, phenylpropanoids, hesperidin. it is cholesterol free, fat free and also it is free from any added sugars (naturally sweet) (Gianni Galaverna, *et al.* 2008).with a typical pH of around 3.5. (Walton B. Sinclair, *et al.*. 1945).

Orange originally come from a Different cultivars (e.g. Valencia, Hamlin, ruby red and Mandarin) depending on the cultivars; Orange juice varies between orange to yellow color with one exceptions for ruby red orange that came in reddish-orange.(Staff of the Citrus Experiment Station, College of Natural and Agricultural Sciences (1910-2011). 2011).

According to recent report orange juice, acts as an inhibitor of organic anion transporter proteins (OATPs) based on the report finding that the bioavailability of the antihistaminic drug fexofenadine in humans was reduced with Orange juice intake, (Dresser *et al.*. 2002).