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Role of red beet juice in human body

Anthocyanin (red dye) from Iraqi red beet juice which is extracted mechanically (squeeze process) is a highly water soluble due to many hydroxide groups and sometime has glucose molecule which is carried on the anthocyanin molecule (position 3), the combustion energy of the carried glucose is the same of the free glucose but it doesn't influence on sugar blood. This juice is slightly sweet due to the present free sugar and carried glucose. The juice is slightly acidic due to the exchangeable proton (Hydrogen ion) it is called (trans-membrane proton) with a radius = $1.5 \times 10^{-15} \text{m}$. The concentration of proton is determined by measuring its pH was $[\text{H}^+] = [\text{proton}] = 10^{-5.7}$, $\text{pH} = \text{pP} = 5.7$ upon juice dilution (5%) the $\text{pP} = 5.2$. In spite of lower concentration of the exchangeable proton in the juice, but it is very active to attack metal ions as soon as contact with it, as well as hetero atoms (likes O, N, S) in organic molecule such process called protonation (exothermic process), this process pulls the abnormal high energy molecules (cancer cell) downhill and stabilize it. Proton is condensed in aqueous solution called hydrated proton P (H₂O) which moves to the whole human body and when becomes near high energy molecule or molecule with hetero atom leaving the water and attacks that molecule as same as the aircraft carrier when becomes to the target, the aircraft leaves the carrier and attacks the target (save energy). Results show from heating solid residue (obtained from evaporation the juice at 110 °C or from boiling the juice at 104 °C, there is a loss in weight due to the liberation from water and from that calculation shows that concentration of anthocyanin in the juice is 79% and anthocyanin molecule becomes dimer. Dimerization reduces the ability of the exchangeable proton and for this reason the juice prefers to extract mechanically and no addition of any material to it.

Biography

Jalil Ahmed working as a Professor in University of Babylon, Iraq.

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