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Anthocyanin acts as scavenger for heavy metal ions, attack cancer cell and interacts with uric acid and urea to expel it through urine system

Anthocyanin from red beet juice, cherry and red rose which is extracted mechanically is water soluble due to the many hydroxyl groups and glucose molecule which is carried on the anthocyanin (position 3 on it). This juice is slightly sweet due to the free sugar present. The juice is very slightly acidic due to its exchangeable proton (Transmembrane proton with radius 1.5×10^{-6} nm). The concentration of the proton in the juice is 10-6.4 g proton/L. In spite of very low concentration of the exchangeable proton in the juice, it is very active to attack metal ions as soon as it comes in contact with it and as well as hetero atoms (like O, N, S) in organic molecules, such process is called protonation (exothermic process) in which this process pull the abnormal high energy molecules downhill and stabilize it. Proton is condensed in aqueous solution called hydrated proton PH_2O which moves to the whole human body and when become near high energy molecule with hetero atom leaving the water and attacks that molecule similar to the aircraft carrier when becomes near to the target, the aircraft leaves the carrier and attacks the target. In such process, proton saves the energy for the attack. Results show that solid anthocyanin from the evaporation of juice goes into condensation polymerization around 80 °C with liberation of water, as well as boiling concentrated juice (home-made) resulted in polymerization with very fine solid particles which reduce the ability of the exchangeable proton to precipitate heavy metal ions. Ultra violet-visible spectrum shows great difference between normal and filtered boiled juice. Thus it prefers to extract the juice mechanically not thermally and not any additional material added to the juice. Spectroscopic tests in addition to the visual one show that there is an interaction between anthocyanin and uric acid and urea in blood through hydrogen bonds and this help in detoxification process through urine system and this help kidney in its work.

Biography

Jaleel K Ahmed has his expertise in Iron and Steel Industry. He has used chlorophyll as gamma ray absorber to protect Iraqi children from cancer and used red beet juice as scavenger for poisonous heavy metal ions and anticancer and detoxification of urea and uric acid from human body via urine system.

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