



LICENCIATURA EN NUTRICIÓN

BIOQUÍMICA

INFOGRAMA: FUNCIONES DEL AGUA EN EL CUERPO HUMANO

DOCENTE: QFB. YENI KAREN CANALES HERNÁNDEZ

ALUMNA: XOCHITL PÉREZ PASCUAL

TERCER CUATRIMESTRE
GRUPO "A"

TAPACHULA CHIAPAS
23 DE MAYO DE 2020



Principal constituyente de todos los tejidos vivos, ya que representa generalmente al menos el 60% de su composición.

Participa en la mayoría de las reacciones químicas del metabolismo: como son los procesos de digestión, respiración, absorción y excreción.

TERMORREGULACIÓN:

Gracias a la gran cantidad de agua que tenemos, la temperatura corporal permanece constante, el sudor lo mantiene fresco y libre de toxinas.

SOPORTE: Lubrica y proporciona soporte estructural a tejidos y articulaciones.

HIDRATACIÓN

FUNCIONES
AGUA EN EL
CUERPO HUMANO

vehículo para eliminar productos de desecho

REPARACIÓN DE CÉLULAS

TRANSPORTE: transportador de nutrientes, oxígeno y sustancias necesarias para la vida de las células.

REGULADORA: regulación homeostática, regula los niveles de acidez en el organismo.

BIBLIOGRAFÍA

- Ángeles Carbajal Azcona. Departamento de Nutrición. Facultad de Farmacia. Universidad Complutense de Madrid <https://www.ucm.es/nutricioncarbajal/>
1. Aguirre,R.J.,Suárez,C. y Viollaz,P.E. 1986. "Enthalpy-entropy compensation in sorption phenomena:application to the prediction of the effect of temperature on food isotherms", J. Food Sci., 51:1547. 2. Bertoluzza,A., C. Fagnano, M.A. Morelli,A. Tinti y M.R. Tosi. 1993. "The role of water in biological systems". J. Molec. Struct. 297:425-437. 3. Cerrutti, P., Resnik, S.L., Seldes,A. y Ferro Fontán, C. 1985. "Kinetics of deteriorative reactions in model food systems of high water activity: glucose loss, 5-hydroxymethylfurfural accumulation and fluorescence development due to nonenzymatic browning", J. Food Sci., 50:627. 4. Chen, A.C. y Karmas, E. 1980. "Solute activity effect on water activity", Lebensm, Wiss, u. Technol., 14:101. 5. Chen, C.S. 1986. "Effective molecular weight of aqueous solutions and liquid foods calculated from the freezing point depression", J. Food Sci., 51:1537. 6. Chen, C.S. 1987. "Relationship between water activity and freezing point depression of food systems", J. Food Sci., 52:433. 7. Chinachoti, P. 1993. "Water mobility and its relation to food functionality of sucrose-containing food systems". Food Technol. 45(1):134-140. 8. DeMan, J.M. 1999. "Water". Cap. 1 en Food Chemistry. Tercera edición, pp. 1-32. Aspen Publishers, Gaithersburg, MD. 9. Eichner, K. 1985. "The influence of water content on non-enzymatic browning reactions in dehydrated foods and model systems and the inhibition of fat oxidation by browning intermediates". Cap. 23 en Water Relations of Foods. Ed. R.B. Duckworth, pp. 417-434, Academic Press, Nueva York. 10. Erickson, L.E. 1982. "Recent developments in intermediate moisture foods", J. Food Prot., 45:484. 11. Fennema, O.R. 1976. "Water and ice", en Food Chemistry, Ed. O.R. Fennema, Marcel Dekker, Nueva York. 12. Fernández, B., Mauri, L.M., Resnik, S.L. y Tomio, J.M. 1986. "Effect of adjusting the water activity to 0.95 with different solutes on the kinetics of thiamin loss in a model system", J. Food Sci., 51:1100. 13. Fritsch, C.W. 1994. "Lipid oxidation – the other dimensions". Inform 5: 423-428, 431-436. 14. Furuya, E.M., Warthesen, J.J. y Labuza, T.P. 1984. "Effects of water activity, light intensity and physical structure of food on the kinetics of riboflavin photodegradation", J. Food Sci., 49:525. 15. Gerschenson, L.N., Almazora, S.M. y Chirife, J. 1986. "Stability of sorbic acid in model food systems of reduced water activity: sugar solutions", J. Food Sci., 51:1028. 16. Guilbert, S., Clement, O. y Cheftel, J.C. 1981. "Relative efficiency of various aW-lowering agents in aqueous solutions and in intermediate moisture foods", Lebensm Wiss. u. Technol., 14:245. 17. Hartman, G.J., Scheide, J.D. y Ho, C.T. 1984. "Effect of water activity on the major volatiles produced in a model system approximating cooked meat", J. Food Sci., 49:607. 18. Iglesias, H.A. y Chirife, J. 1982. Handbook of Food Isotherms, Academic Press, Nueva York. 19. Iglesias, H.A. y Chirife, J. 1984. "Correlation of BET monolayer moisture content in foods with temperature", J. Food Technol, 19:503 20. Iglesias, H.A., Chirife, J. y Ferro Fontán, C. 1986. "Temperature dependence of water sorption isotherms of some foods", J. Food Sci., 51:551. 21. Kaanane, A. y Labuza, T.P. 1985. "Change in available lysine loss reaction rate in fish flour due to an aW change induced by a temperature shift", J. Food Sci., 50:582. 22. Kanterewicz, R.J. y Chirife, J. 1986. "Color changes and available lysine during storage of shelf-stable concentrated cheese whey", J. Food Sci., 51:826. 23. Kearsley, M.W. y Rodríguez, N. 1981. "The stability and use of natural colours in foods: anthocyanin, b-carotene and riboflavin", J. Food Technol., 16:421.