

References

References

- 1- Aeschbacher, H.V., Chappuis, CH, Manganel, M, and Aeschbach, R. Investigation of Maillard product in bacterial mutagenicity test systems. *Prog. Food Nutr. Sci* 5:279-293. (1981).
- 2- Anet, E.F.L.J. 3- deoxy glucosuloses (3-dexoy-glycosones) and the degradation of carbohydrates. *Adv. Carbohydrate-chem.* 19,181-218. (1964).
- 3- Black, D.K. Isolation of 5-hydroxy methyl furfural from cigarette smoke condensate – *chem – ind.* 32:1380. (1966).
- 4- British pharmacopoeia, appendix II B. 1993.
- 5- British pharmacopoeia, vol.2, P.930 Univ. Press Cambridge, England. 1993.
- 6- Bronswijk H, Verbrugh HA, Bos HJ, et al. Cytotoxicity effects of commercial continuous ambulatory peritoneal dialysis (CAPS) fluids and of bacterial exoproducts on human mesothelial cells in vitro, 1989.
- 7- Carin B. Nilsson – Thorell, Natalia Muscalu and Anders P. Wieslander. Heat sterilization of fluids for peritoneal dialysis gives rise to aldehydes, 1992.
- 8- Cook, Ap, Macleod TM, Appleton JD, Fell AF. Reversed phase high – performance liquid chromatographic method for the quantification of 5-hydroxy methyl furfural as the

- major degradation product of glucose in infusion fluids.
 Chromosoma; 21: 395-401. (1989).
- 9- Czok, G {compatibility of 5-hydroxymethyl furfural (HMF) 2- communication: pharmacologic effects} 2-
 Ernährungsw : 5,10,103-110. (1970).
- 10- Czok, G, and forster, H {Experimental animal investigations on the question of chronic toxicity of 5-hydroxymethyl furfural) 2- Ernährungswiss, suppl. 15, 103,107. (1973).
- 11- Ellen Boren Freund and James A. puerner. Toxicity determined in vitro by morphological alteration and neutral red absorption, (1985).
- 12- Enders, Biochem. Z. 312 (1942).
- 13- Fischer, Angero. Chmem, 32 (1919).
- 14- Flaig and H.Z. Schultze, pflanz Dueng, (1952).
- 15- Florin, I,R Utberg, L, Curvall, M, Ana Enzell C.R. Screening of tobacco smoke constituents for mutagenicity using Ames test. Toxicology 15, 219-232. (1980)
- 16- Forsskah I,T. popoff, and O. Theander, carbohydr. Res, 48 (1976).
- 17- Fukuchi, H, Tsukia, S., Okada, K., And Tanimotd, T. Thermal degradation products of glucose solution. Hiroshima J. Anesth 13,3-10. (1977).

- 18- Garry VF, oatman L, pleus R, Gray D. Formaldehyde in the home, some environmental disease perspectives. Minn med, (1980).
- 19- Heaton, T.B, and Robinson, G.M Biological properties of substance isolated from wheat middlings and of hydroxy methyl furfural dehyde nature (London) 162,570. (1948).
- 20- Heimlich, K.R, and Martin, A.N. A kinetic study of glucose degradation in acid solution. J. Amer, pharm. Assoc. Sci. Ed. 49, 592-597. (1960).
- 21- Henderson Is, couper IA, Lumsden A. potentially irritant glucose metabolites in un used CAPP fluid, in Frontiers in peritoneal Dialysis, edited by Winchester, New York, P. 261-264. (1985).
- 22- Henderson IS, Couper IA, Lumsden A. The effect of shelf life of peritoneal dialysis fluid on ultrafiltration in CAPD. In:LA Greca G, peritoneal dialysis- Milan: witchiz, (1986).
- 23- Honda, H, Umeki, T, and Kikugawa, K. Heat decomposition of aqueous sugar solution (1979).
- 24- Kato, K, and Komrita, H. Pyrolysis of cellulose. Part V. Isolation and identification of 3-deoxy glycosones produced from D-glucose, D-xylose and α – cellulose by heating. Agric- Biol. Chem – 32, 715-720. (1968).
- 25- Jellum, E, Borresen, H.C, and Eldjarn, L The presence of furan derivatives in patients receiving fructose containing solutions intravenously, 191-201. .(1973).

- 26- Karashima, J Studies about furan compounds that are derived from sugars. Hoppe. Seylers Z. physiol. Chem 169, 278-296. (1927).
- 27- Karashima, J Studies about furan compounds that are derived from sugars. Hoppe. Seylers Z. physiol. Chem 169, 278-296. (1927).
- 28- Klimmek, R, and weger, N Influence of 5-hydroxy methyl furfural (HMF) on respiration, Circulation, blood gases and clinico-chemical parameters with the dog. Wehrmed-monatsschr. 22,44-47. .(1978).
- 29- Lang, K, and Bickel, H Investigations about the compatibility of 5-hydroxy methyl furfural (HMF). 3 communications. Proof of cytotoxic effects on chick embryo fibroblasts Z. Ernährungswiss. 10, 153-154. (1970).
- 30- ledl and T. sever in, Z.Lebensm. Unters. Forsch., 175 (1982).
- 31- Lobry de Bruyn and W. Alberda Van Ekenstein, Recl. Trav. Chim- pays – bas, 14 (1895).
- 32- Marcusson, Angew. Chem. 34 (1921).
- 33- Martinson E, Wieslander A, Kjellstrand P, Boberg V. Toxicity in heat. Sterilized fluids for peritoneal dialysis derives from degradation of glucose. ASAIO (1992).

- 34- Mary Ann Libert,. CIR expert panel. Final report on the safety assessment of formaldehyde. In : journal of the American college of toxicology. New York. (1984).
- 35- Morchek, J.E, and Rainy, W.T, Jr. Identification and biochemical significance of substituted furans in human urine, Clin. Chem-18, 821-828. (1972).
- 36- Murty, B.S.R, Kapoor, J.N. and smith, F.X.. Levels of 5-hydroxy methyl furfural in dextrose injection. Amer. J. hosp-pharm. 34,205-206. (1977)
- 37- Muszynski, Z, Kedzia, H, Muszynska, K, and kedzia, W, The influence of the glucose thermal decomposition products on carbohydrate metabolism in white mice liver. Diss. Pharm. Teristics pharmacol, 15-23. (1969.).
- 38- Okada, S, Iga, S, Veoka, and Isaka, H Studies on physicochemical examination of glucose injection. Bull Natl. Inst. Hyg Sci. Japan, 87-90. (1970).
- 39- Olech, A, and Usiekniewicz, K Evaluation of parenteral fluids by instrumental methods. Farmpol. 34, 83-86. (1978).
- 40- ORSI, F On the kinetics of the formation of 5-hydroxy methyl furfural. Nahrung 15,43-55. (1971).
- 41- Ortlepp, H Correction of pH values of infusion solutions of glucose, fructose, and their mixtures with Xylite. Kranken haus Apotheke 29,81-83. (1980).

- 42- Pilotti, A, Ancker, K, Arrhenius, E, Enzell Effects of tobacco and tobacco smoke constituents on cell multiplication in vitro. *Toxicology* 5,49-62. (1975).
- 43- Piotr. Tomasik. The thermal decomposition of carbohydrates cracow, poland, (1989.).
- 44- Popovich. RP, Moncrief JW, Decherd JB, Bomar JB, Pyle Wk: The definition of a novel portable/ wearable equilibrium peritoneal dialysis technique (abstract). *Am Soc artif intern organ* 5:64, (1976).
- 45- Postaire, F. Pradier, M. Postaire, D. Predean, L. Matchoutsky. P. Prognon and M. Hamon “various techniques for the routine evaluation of the degradation of glucose in parenteral solutions” – a critical study, *J. pharm S- Bio medic* – and 5,309 (1987).
- 46- Rede, G.P.. Fructose effect in higher plants. *Ann, Bot. (London)* 38, 287-297. (1974).
- 47- . Rossin Skaya, G. Dom burgs, and A.T. cherbikova, in V.P. Karlivan (Ed), *Term. Anal, Tezisy DOKL. Vses. Soveshch.*, 7th, Vol. 2, Zinatne Riga, (1979).
- 48- Schoental, R, Hand, G.C, and Gibbard, S. Histo pathology of renal lipomatous tumors in rats treated with the “natural” products pyrrolizidine alkaloids and α , β unsaturated aldehydes. *J. Natl. cancer inst* 47, 1037-1044. (1971).
- 49- . Silber man, *J. org. chem*, 26 (1961).

- 50- Simonyan, T. A [Toxico – hygienic characteristics of oxymethyl furfural] Vopr. Pitan. 28,54-58. (1969).
- 51- Simonyan, T.A. [Hygienic aspect of hydroxy methyl furfural in caramel substances]. Khlebopek. Konditer. Promst. 17-18. (1974).
- 52- Sokolowska, I. [Investigation of the decomposition of glucose for parenteral use] Zentrabl. Pharm. 115,705-717. (1976).
- 53- Sturgeon, R.J, A Thanikar, N.K, Harbison, J.A. scott Henry, R. Q Welco, A.D Degradation of dextrose during heating under simulated sterilization. Journal of the parenteral drug association, 34, 175-182. (1980).
- 54- Taylor, R.B, Jappy, B.M, and Neil, J.M. kinetics of dextrose degradation under autoclaving conditions. (1972).
- 55- Telegdy. Kovats and F. Orsi, period. Polytech. Chem. Eng, (1973).
- 56- Tipson, and Durand, M.F. Dull, J. Am – chem Soc, 80 (1958).
- 57- Topley N, Alobaidi HMM, Davies M, Coles GA, william JD, Lioyd. The effect of dialysate on peritoneal phagocyte oxidative metabolism, (1988).
- 58- Topley N, Mackenzie R, Psetersen MM, etal. In vitro testing of a potentially bio-compatible continuous ambulatory peritoneal dialysis fluid. Nephrol dial transplant, 6: 574-81. (1991).

- 59- Ulbricht RJ, Northup JS, Thomas JA, A review of 5-hydroxy methyl furfural (HMF) in parenteral solutions *fundam Appl Toxicol*; 4: 843-53. (1984).
- 60- United states pharmacopoeia (USP). 20th. Rev P.218 U.S. pharmacopoeial convention, pockville, Md. (1979).
- 61- Van Dam. A.P.G. Kieboom, and H. van Bekkum, *Staerke*, 38 (1986).
- 62- Wieslander, Anders H.G. Andern, and Bengt Rippe. [Are aldehydes in heat sterilized peritoneal dialysis fluids toxic in vitro?]. (1995).
- 63- Wieslander A, Nordin MK. Kzell strand pT, Boberg V. Toxicity of peritoneal dialysis fluids on cultured fibroblast L. 929 *kidney Int.*,40 : 77-9. (1991).
- 64- Wing W.T. intravenous infusion of dextrose. *Pharm J*, (1972).
- 65- Wing W.T. *J. pharm. Pharmac*, 12, suppl, 191T-196T. (1960).
- 66- Wolfram, M.L, Schuetz, R.D. cavalier, L.FJ.*Am. chem. Soc*, 70, 514-517. (1984).
- 67- Zaitzev, A.N. simonyan, T.A, and pozdnyakov, A.L. Hygienic standardization of oxymethyl furfurol in food products. *Vopr. Pitan* 52-55. (1975).

