

REFERENCES

- Ahmed, A., 2006. *FOOD CHEMISTRY* Submitted by : Kiran naz FT ; 6 th semester Submitted to : - Dr . Asif Ahmed Topic of assignment : - “ Chemistry of food colors ” Chemistry of food colors.
- Alsalahi, M.A., Latif, M.T., Ali, M.M., Magam, S.M., Wahid, N.B.A., Khan, M.F., Suratman, S., 2014. Distribution of surfactants along the estuarine area of Selangor River, Malaysia. Mar. Pollut. Bull. 80, 344–350.
- Amchova, P., Kotolova, H., Ruda-Kucerova, J., 2015. Health safety issues of synthetic food colorants. Regul. Toxicol. Pharmacol. 73, 914–922.
- Bakowska-Barczak, A., 2005. Acylated Anthocyanins As Stable, Natural Food Colorants – a Review. Polish J. Food Nutr. Sci. 14/55, 107–116.
- Berg, M.O., Jesus Boari Lima, A. DE, Duarte Corrêa, A., Aparecida Saczk, A., Pereira Martins, M., Oliveira Castilho, R., 2011. ANTHOCYANINS, PIGMENT STABILITY AND ANTIOXIDANT ACTIVITY IN JABUTICABA (*Myrciaria cauliflora*) (, Rev. Bras. Frutic., Jaboticabal-SP.
- Burrows, A., 2009. Palette of Our Palates: A Brief History of Food Coloring and Its Regulation The Power of Color: Tasting With Our Eyes.
- Castañeda-Ovando, A., Pacheco-Hernández, M. de L., Páez-Hernández, M.E., Rodríguez, J.A., Galán-Vidal, C.A., 2009. Chemical studies of anthocyanins: A review. Food Chem.
- Cevallos-Casals, B.A., Cisneros-Zevallos, L., 2004. Stability of anthocyanin-based aqueous extracts of Andean purple corn and red-fleshed sweet potato compared to synthetic and natural colorants. Food Chem. 86, 69–77.
- Chu, B.-S., Wilkin, J.D., House, M., Roleska, M., Lemos, M.A., 2016. Effect of Sucrose on Thermal and pH Stability of *Clitoria ternatea* Extract. Int. J. Food Process. Technol. 3, 11–17.

Cisse, M., Vaillant, F., Kane, A., Ndiaye, O., Dornier, M., 2012. Impact of the extraction procedure on the kinetics of anthocyanin and colour degradation of roselle extracts during storage. *J. Sci. Food Agric.* 92, 1214–1221.

De Pascual-Teresa, S., Sanchez-Ballesta, M.T., 2008. Anthocyanins: From plant to health. *Phytochem. Rev.* 7, 281–299.

Giusti, M. Mónica, Wrolstad, R.E., 2003. Acylated anthocyanins from edible sources and their applications in food systems. *Biochem. Eng. J.* 14, 217–225.

Giusti, M.Mónica, Wrolstad, R.E., 2003. Acylated anthocyanins from edible sources and their applications in food systems. *Biochem. Eng. J.* 14, 217–225.

Gomez, S.M., A. Kalamani, 2003. Butterfly Pea (*Clitoria ternatea*): A Nutritive Multipurpose Forage Legume for the Tropics - An Overview. *Pakistan J. Nutr.* 2, 374–379.

Harasym, J., Bogacz-Radomska, L., 2016. COLORANTS IN FOODS - FROM PAST TO PRESENT. *Eng. Sci. Technol. / Nauk. Inz. i Technol.* 3, 21–35.

He, J., Giusti, M.M., 2009. Anthocyanins: Natural Colorants with Health-Promoting Properties. *Annu. Rev. Food Sci. Technol.* 1, 163–187.

Jr, L.L.G., Hyatt, E.M., Nafees, L., 2014. Journal of Food Products Marketing The Effects of Food Color on Perceived Flavor : A Factorial Investigation in India 37–41.

Khan, A.M., Shah, S.S., 2008. Determination of the CMC of SDS and the Effect of Low Concentration of Pyrene on its CMC using ORGIN Software.pdf. *J. Am. Chem. Soc.* 30, 186–191.

Kopjar, M., Piližota, V., Šubari, D., Babi, J., 2009. Prevention of thermal degradation of red currant juice anthocyanins by phenolic compounds addition 1, 24–30.

Kungsuwan, K., Singh, K., Phetkao, S., Utama-ang, N., 2014. Effects of pH and anthocyanin concentration on color and antioxidant activity of <i>Clitoria ternatea</i> extract. *Food Appl. Biosci. J.* 2, 31–46.

Lai, K.P.K., Dolan, K.D., Ng, P.K.W., 2009. Inverse Method to Estimate Kinetic Degradation Parameters of Grape Anthocyanins in Wheat Flour Under Simultaneously Changing Temperature and Moisture. *J. Food Sci.* 74, E241–E249.

Lakshmi, C.G., 2014. Food Coloring: The Natural Way. *Res. J. Chem. Sci. Res. J. Chem. Sci* 4, 2231–606.

Lee, P.M., Abdullah, R., Hung, L.K., 2010. Multiple Color and pH Stability of Floral Anthocyanin Extract : *elitaria Ternatea* 254–258.

Lee, P.M., Abdullah, R., Hung, L.K., 2011a. Thermal Degradation of Blue Anthocyanin Extract of *Clitoria ternatea* Flower. *Ipcbee* 7, 49–53.

Lee, P.M., Abdullah, R., Hung, L.K., 2011b. Thermal Degradation of Blue Anthocyanin Extract of *Clitoria ternatea* Flower. *Ipcbee* 7, 49–53.

Lima, J.C., Vautier-Giongo, C., Lopes, A., Melo, E., Quina, F.H., Maçanita, A.L., 2002. Color stabilization of anthocyanins: Effect of SDS micelles on the acid-base and hydration kinetics of malvidin 3-glucoside (Oenin). *J. Phys. Chem. A* 106, 5851–5859.

Loypimai, P., Moongngarm, A., Chottanom, P., 2016. Thermal and pH degradation kinetics of anthocyanins in natural food colorant prepared from black rice bran. *J. Food Sci. Technol.* 53, 461–470.

Marpaung, A.M., 2012. OPTIMASI PROSES EKSTRAKSI ANTOSIANIN PADA BUNGA TELENG (*Clitoria ternatea* L .) DENGAN METODE PERMUKAAN TANGGAP. Tugas Akhir Magister Profesi IPB.

Marpaung, A.M., 2017. STABILITY OF INTRAMOLECULAR COPIGMENTATION AND ITS ROLE ON COLOUR DEGRADATION OF ANTHOCYANINS FROM BUTTERFLY PEA (*Clitoria ternatea* L.) FLOWER EXTRACT.

Marpaung, A.M., Andarwulan, N., Hariyadi, P., Nur Faridah, D., 2017. Thermal Degradation of Anthocyanins in Butterfly Pea (*Clitoria ternatea* L.) Flower Extract at

pH 7. Am. J. Food Sci. Technol. 5, 199–203.

Martins, N., Lobo Roriz, C., Morales, P., Barros, L., Ferreira, I.C.F.R.F.R., Roriz, C.L., Morales, P., Barros, L., Ferreira, I.C.F.R.F.R., 2016. Food colorants: Challenges, opportunities and current desires of agro-industries to ensure consumer expectations and regulatory practices, Trends in Food Science & Technology. Elsevier.

Mohajeri, E., Noudeh, G.D., 2012. Effect of Temperature on the Critical Micelle Concentration and Micellization Thermodynamic of Nonionic Surfactants: Polyoxyethylene Sorbitan Fatty Acid Esters. E-Journal Chem. 9, 2268–2274.

Morris, J.B., 2009. Characterization of butterfly pea (*Clitoria ternatea* L.) accessions for morphology, phenology, reproduction and potential nutraceutical, pharmaceutical trait utilization. Genet. Resour. Crop Evol. 56, 421–427.

Mourtzinos, I., Makris, D.P., Yannakopoulou, K., Kalogeropoulos, N., Michali, I., Karathanos, V.T., 2008. Thermal stability of anthocyanin extract of Hibiscus sabdariffa L. in the presence of β -cyclodextrin. J. Agric. Food Chem. 56, 10303–10310.

Mukherjee, P.K., Kumar, V., Kumar, N.S., Heinrich, M., 2008. The Ayurvedic medicine *Clitoria ternatea*-From traditional use to scientific assessment. J. Ethnopharmacol. 120, 291–301.

Mulinacci, N., Romani, A., Pinelli, P., Gallori, S., Giaccherini, C., Vincieri, F.F., 2001. Stabilisation of natural anthocyanins by micellar systems. Int. J. Pharm. 216, 23–31.

Niraula, T.P., Bhattacharai, A., Chatterjee, S.K., 2014. Sodium Dodecyl Sulphate : a Very Useful Surfactant for Scientific Investigations. J. Knowl. Innov. 2, 111–113.

Oancea, S., Drăghici, O., 2013a. PH and thermal stability of anthocyanin-based optimised extracts of romanian red onion cultivars. Czech J. Food Sci. 31, 283–291.

Oancea, S., Drăghici, O., 2013b. PH and thermal stability of anthocyanin-based

optimised extracts of romanian red onion cultivars. Czech J. Food Sci. 31, 283–291.

Sadilova, E., Carle, R., Stintzing, F.C., 2007. Thermal degradation of anthocyanins and its impact on color and in wfroantioxidant capacity. Mol. Nutr. Food Res. 51, 1461–1471.

Saleem, N., Umar, Z.N., Khan, S.I., 2013. Survey on the Use of Synthetic Food Colors in Food Samples Procured From. J. Trop. Life Sci. 3, 1–7.

Samiey, B., Cheng, C.-H., Wu2, J., 2014. Effects of Surfactants on the Rate of Chemical Reactions. Part I Phys. Chem. Part II Solid State Phys. 153–156.

Saptarini, N.M., Suryasaputra, D., Nurmalia, H., 2015. Application of Butterfly Pea (*Clitoria ternatea* Linn) extract as an indicator of acid-base titration. J. Chem. Pharm. Res. 7, 275–280.

Schramm, L.L., Stasiuk, E.N., Marangoni, D.G., 2003. Surfactants and their applications. Annu. Reports Prog. Chem. - Sect. C.

Suebkhampet, A., Sotthibandhu, P., 2012. Effect of Using Aqueous Crude Extract from Butterfly Pea Flowers (*Clitoria Terna* 19, 15–19.

Sun, J., Bai, W., Zhang, Y., Liao, X., Hu, X., 2011. Identification of degradation pathways and products of cyanidin-3- sophoroside exposed to pulsed electric field. Food Chem. 126, 1203–1210.

T. Goto, T.K., 1991. Structure and molecular stacking of anthocyanins-flower colour variation. Agric. Chem. 17–33.

Tennouga, L., Mansri, A., Medjahed, K., Chetouani, A., Warad, I., 2015. The micelle formation of cationic and anionic surfactants in aqueous medium : Determination of CMC and thermodynamic parameters at different temperatures 6, 2711–2716.

Trouillas, P., Sancho-garc, J.C., Freitas, V. De, Gierschner, J., Otyepka, M., Dangles, O., 2016. Stabilizing and Modulating Color by Copigmentation : Insights from Theory and Experiment.

Wang, Y., 2015. The Experimental Study on Thermal Stability of Aqueous Surfactant Solution 289–292.

Yoshida, K., Mori, M., Kondo, T., 2009. Blue flower color development by anthocyanins: From chemical structure to cell physiology. Nat. Prod. Rep.

