

#### เอกสารอ้างอิงแก้วมังกร 33(4)

1. สุรพงษ์ โกสิยะจินดา. แก้วมังกร : พืชเศรษฐกิจ ผลไม้สุขภาพ. กรุงเทพฯ: สมาคมพืชสวนแห่งประเทศไทย; 2545. 208 หน้า
2. Gibson, A.C. and P.S. Nobel. 1986. The Cactus Primer. Harvard Univ. Press, Cambridge.
3. Siddiq M, Nasir M. Dragon fruit and durian. In: Siddiq M, editor. Tropical and subtropical fruits: postharvest physiology, processing and packaging. New Delhi: John Wiley & Sons, Inc; 2012. p. 587-596.
4. Ortiz-Hernández YD, Carrillo-Salazar JA. Pitahaya (*Hylocereus* spp.): a short review. *Comunicata Scientiae* 2012;3(4):220-37.
5. Chareoansiri R, Kongkachuichai R. Sugar profiles and soluble and insoluble dietary fiber contents of fruits in Thailand markets. *Int J Food Sci Nutr* 2009;60 Suppl 4:126-39.
6. Ramírez-Truque C, Esquivel P, Carle R. Neutral sugar profile of cell wall polysaccharides of pitaya (*Hylocereus* sp.) fruits. *Carbohydr Polym* 2011;83:1134–8.
7. Khalili RMA, Abdullah ABC, Manaf AA. Isolation and characterization of oligosaccharides composition in organically grown red pitaya, white pitaya and papaya. *Int J Pharm Pharm Sci* 2014;6(suppl 2):131-6.
8. Ong YY, Tan WS, Rosfarizan M, Chan ES, Tey BT. Isolation and identification of lactic acid bacteria from fermented red dragon fruit juices. *J Food Sci* 2012;77(10):M560-4.
9. Wichienchot S, Jatupornpipat M, Rastall RA. Oligosaccharides of pitaya (dragon fruit) flesh and their prebiotic properties. *Food Chem* 2010;120:850-7.
10. วรณดล เข้มงคล. ประโยชน์ของฟรุคโตโอลิโกแซคคาไรด์ในอาหารทางการแพทย์วารสารไทยเภสัชศาสตร์และวิทยาการสุขภาพ 2556;8(3):122-128.
11. Ariffin AA, Bakar J, Tan CP, Rahman RA, Karim R, Loi CC. Essential fatty acids of pitaya (dragon fruit) seed oil. *Food Chem* 2009;114: 561–64.
12. วิโรจน์ ไหววานิชกิจ. ภาวะเลือดออกในปัสสาวะเทียมจากการรับประทานแก้วมังกรแดง. *จุฬาลงกรณ์เวชสาร* 2550;51(3):167-171.
13. Yang X, Yang Y, Shi M, Wang Y, Zhang Z, Lu Y. Optimisation of anthocyanin extraction from purple pitaya and verification of antioxidant properties, antiproliferative activity and macrophage proliferation activity. *International Journal of Biology* 2013;5(3):19-29.
14. Gengatharan A, Dykes GA, Choo WS. Betalains: Natural plant pigments with potential application in functional foods. *LWT - Food Science and Technology* 2015;64:645-9.

15. Wybraniec S, Platzner I, Geresh S, Gottlieb HE, Haimberg M, Mogilnitzki M, et al. Betacyanins from vine cactus *Hylocereus polyrhizus*. *Phytochemistry* 2001;58(8):1209-12.
16. Wybraniec S, Mizrahi Y. Fruit flesh betacyanin pigments in *Hylocereus* cacti. *J Agric Food Chem* 2002;50(21):6086-9.
17. Stintzing FC, Schieber A, Carle A. Betacyanins in fruits from red-purple pitaya, *Hylocereus polyrhizus* (Weber) Britton & Rose. *Food Chem* 2002;77:101–6.
18. Stintzing FC, Conrad J, Klaiber I, Beifuss U, Carle R. Structural investigations on betacyanin pigments by LC NMR and 2D NMR spectroscopy. *Phytochemistry* 2004;65(4):415-22.
19. Esquivel P, Stintzing FC, Carle R. Pigment pattern and expression of colour in fruits from different *Hylocereus* sp. genotypes. *Innov Food Sci Emerg Technol* 2007;8:451–7.
20. Esquivel P, Stintzing FC, Carle R. Phenolic compound profiles and their corresponding antioxidant capacity of purple pitaya (*Hylocereus* sp.) genotypes. *Z Naturforsch C* 2007;62(9-10):636-44.
21. Dembitsky VM, Poovarodom S, Leontowicz H, Leontowicz M, Vearasilp S, Trakhtenberg S, et al. The multiple nutrition properties of some exotic fruits: Biological activity and active metabolites. *Food Res Int* 2011;44:1671–701.
22. กรรณิการ์ สอนโยธา, ปราณี่ อ่านเปรื่อง. สารออกฤทธิ์ทางชีวภาพและความคงตัวของเบต้าไซยานินจากเปลือกและเนื้อแก้วมังกรพันธุ์เนื้อสีแดง (*Hylocereus polyrhizus* (Weber) Britton & Rose). *ว วิทย กษ* 2552;40:1(พิเศษ):15-18.
23. Suh DH, Lee S, Heo do Y, Kim YS, Cho SK, Lee S, Lee CH. Metabolite profiling of red and white pitayas (*Hylocereus polyrhizus* and *Hylocereus undatus*) for comparing betalain biosynthesis and antioxidant activity. *J Agric Food Chem* 2014;62(34):8764-71.
24. อรุษา ชาววนลิขิต, ประเสริฐ เตชชีวงศ์, ปริญา ตั้งเจริญกิจ. ความคงตัวของเบต้าไซยานินจากเปลือกแก้วมังกร. *ว วิทย กษ* 2553;41(3/1)(พิเศษ):409-12.
25. Kunnika S, Pranee A. Influence of enzyme treatment on bioactive compounds and colour stability of betacyanin in flesh and peel of red dragon fruit *Hylocereus polyrhizus* (Weber) Britton and Rose. *Int Food Res J* 2011;18(4):1437-48.

26. Wong Y-M, Siow L-F. Effects of heat, pH, antioxidant, agitation and light on betacyanin stability using red-fleshed dragon fruit (*Hylocereus polyrhizus*) juice and concentrate as models. *J Food Sci Technol* 2015;52(5):3086-92.
27. Nurul SR, Asmah R. Variability in nutritional composition and phytochemical properties of red pitaya (*Hylocereus polyrhizus*) from Malaysia and Australia. *Int Food Res J* 2014;21(4):1689-97.
28. Lim HK, Tan CP, Karim R, Ariffin AA, Bakar J. Chemical composition and DSC thermal properties of two species of *Hylocereus* cacti seed oil: *Hylocereus undatus* and *Hylocereus polyrhizus*. *Food Chem* 2010;119:1326-31.
29. Tenore GC, Novellino E, Basile A. Nutraceutical potential and antioxidant benefits of red pitaya (*Hylocereus polyrhizus*) extracts. *J Funct Foods* 2012;4:129-136
30. Gregoris E, Lima GPP, Fabris S, Bertelle M, Sicari M, Stevanato R. Antioxidant properties of brazilian tropical fruits by correlation between different assays. *Biomed Res Int* (Article ID 132759) 2013:1-8.
31. Halimoon N, Hasan MHA. Determination and evaluation of antioxidative activity in red dragon fruit (*Hylocereus undatus*) and green kiwi fruit (*Actinidia deliciosa*). *Am J Appl Sci* 2010;7(11):1432-8.
32. Evi Umayah U, Moch Amrun H. Antioxidant activity assay of dragon fruit extract (*Hylocereus undatus* (Haw.) Britt. & Rose). *Jurnal ILMU DASAR* 2007;8(1):83-90.
33. Adnan L, Osman A, Hamid AA. Antioxidant activity of different extracts of red pitaya (*Hylocereus polyrhizus*) seed. *Int J Food Prop* 2011;14:1171-81.
34. Choo WS, Yong WK. Antioxidant properties of two species of *Hylocereus* fruits. *Advances in Applied Science Research* 2011;2(3):418-25.
35. Nurliyana R, Syed Zahir I, Mustapha Suleiman K, Aisyah MR, Kamarul Rahim K. Antioxidant study of pulps and peels of dragon fruits: a comparative study. *Int Food Res J* 2010;17:367-75.
36. Jayakumar R, Kanthimathi MS. Inhibitory effects of fruit extracts on nitric oxide-induced proliferation in MCF-7 cells. *Food Chem* 2011;126:956-60.
37. Wu LC, Hsu HW, Chen YC, Chiu CC, Lin YI, Ho JA. Antioxidant and antiproliferative activities of red pitaya. *Food Chem* 2006;95:319-27.

38. Liu Y, Zhang H, Wei S. Ultrasonic-assisted extraction of pigments from *Hylocereus undatus* flowers: optimization, antioxidant activity, and HPLC analysis. RSC Adv 2015;5:46598-607.
39. Rodriguez EB, Vidallon ML, Mendoza DJ, Reyes CT. Health-promoting bioactivities of betalains from red dragon fruit peels (*Hylocereus polyrhizus* [Weber] Britton and Rose) as affected by carbohydrate encapsulation. J Sci Food Agric 2016.
40. Fathordoobady F, Mirhosseini H, Selamat J, Manap MY. Effect of solvent type and ratio on betacyanins and antioxidant activity of extracts from *Hylocereus polyrhizus* flesh and peel by supercritical fluid extraction and solvent extraction. Food Chem 2016;202:70-80.
41. Rebecca OPS, Harivaindaran KV, Boyce AN, Chandran S. Potential natural dye with antioxidant properties from red dragon fruit (*Hylocereus polyrhizus*). Acta Hortic 2010;875(Proceedings of the Southeast Asia Symposium on Quality and Safety of Fresh and Fresh Cut Produce, 2009):477-485.
42. Rebecca OPS, Boyce AN, Chandran S. Pigment identification and antioxidant properties of red dragon fruit (*Hylocereus polyrhizus*). Afr J Biotechnol 2010;9(10):1450-4.
43. Foong JH, Hon WM, Ho CW. Bioactive compounds determination in fermented liquid dragon fruit (*Hylocereus polyrhizus*). Borneo Science 2012:31-48.
44. Taira J, Tsuchida E, Kato MC, Uehara M, Ogi T. Antioxidant capacity of betacyanins as radical scavengers for peroxy radical and nitric oxide. Food Chem 2015;166:531-6.
45. Kugler F, Stintzing FC, Carle R. Evaluation of the antioxidant capacity of betalainic fruits and vegetables. J Appl Bot Food Qual 2007;81:69-76.
46. Vaillant F, Perez A, Davila I, Dornier M, Reynes M. Colorant and antioxidant properties of red-purple pitahaya (*Hylocereus* sp.). Fruits 2005;60:3-12.
47. Luo H, Cai Y, Peng Z, Liu T, Yang S. Chemical composition and in vitro evaluation of the cytotoxic and antioxidant activities of supercritical carbon dioxide extracts of pitaya (dragon fruit) peel. Chemistry Central Journal 2014;8:1/1-1/7.
48. Vh ES, Utomo SB, Syukri Y, Redjeki T. Phytochemical screening and analysis polyphenolic antioxidant activity of methanolic extract of white dragon fruit (*Hylocereus undatus*). Indonesian J Pharm 2012;23(1):60-4.

49. Kim H, Choi HK, Moon JY, Kim YS, Mosaddik A, Cho SK. Comparative antioxidant and antiproliferative activities of red and white pitayas and their correlation with flavonoid and polyphenol content. *J Food Sci* 2011;76(1):C38-45.
50. Macias-Ceja DC, Cosín-Roger J, Ortiz-Masiá D, Salvador P, Hernández C, Calatayud S, et al. The flesh ethanolic extract of *Hylocereus polyrhizus* exerts anti-inflammatory effects and prevents murine colitis. *Clin Nutr* 2016.
51. Omidzadeh A, Yusof RM, Ismail A, Roohinejad S, Nateghi L, Bakar MZA. Cardioprotective compounds of red pitaya (*Hylocereus polyrhizus*) fruit. *JFAE* 2011;9(3&4):152-6.
52. Ramli NS, Brown L, Ismail P, Rahmat A. Effects of red pitaya juice supplementation on cardiovascular and hepatic changes in high-carbohydrate, high-fat diet-induced metabolic syndrome rats. *BMC Complement Altern Med* 2014;14:189/1-189-10.
53. Song H, Zheng Z, Wu J, Lai J, Chu Q, Zheng X. White pitaya (*Hylocereus undatus*) juice attenuates insulin resistance and hepatic steatosis in diet-induced obese mice. *PLoS One* 2016;11(2):e0149670.
54. Sani HA, Baharom A, Ahmad MA, Ismail II. Effectiveness of *Hylocereus polyrhizus* extract in decreasing serum lipids and liver MDA-TBAR level in hypercholesterolemic rats. *Sains Malaysiana* 2009;38:271-9.
55. Song H, Chu Q, Yan F, Yang Y, Han W, Zheng X. Red pitaya betacyanins protects from diet-induced obesity, liver steatosis and insulin resistance in association with modulation of gut microbiota in mice. *J Gastroenterol Hepatol* 2015 Dec 23.
56. Song H, Chu Q, Xu D, Xu Y, Zheng X. Purified betacyanins from *Hylocereus undatus* peel ameliorate obesity and insulin resistance in high-fat-diet-fed mice. *J Agric Food Chem* 2016;64(1):236-44.
57. Omidzadeh A, Yusof RM, Roohinejad S, Ismail A, Bakar MZA, Bekhit AEDA. Anti-diabetic activity of red pitaya (*Hylocereus polyrhizus*) fruit. *RSC Adv* 2014;4:62978-86.
58. Anand Swarup KR, Sattar MA, Abdullah NA, Abdulla MH, Salman IM, Rathore HA, et al. Effect of dragon fruit extract on oxidative stress and aortic stiffness in streptozotocin-induced diabetes in rats. *Pharmacognosy Res* 2010;2(1):31-5.

59. Latif AZBA, Haque M, Shanmugasundaram C, Rao USM. Clinical study of preventive potentials of consumption of Buah naga [Cactaceae] against paracetamol-induced hepatotoxicity as well as the other associated biological effects. *Asian J Res Pharm Sci* 2012;2(1):16-23.
60. Islam AMT, Chowdhury AU, Uddin ME, Rahman M, Habib R, Uddin GM, et al. Protective effect of methanolic extract of *Hylocereus polyrhizus* fruits on carbon tetrachloride-induced hepatotoxicity in rat. *European J Med Plants* 2013;3(4):500.
61. Perez G RM1, Vargas S R, Ortiz H YD. Wound healing properties of *Hylocereus undatus* on diabetic rats. *Phytother Res* 2005;19(8):665-8.
62. Aziz FA, Noor MM. Ethanol extract of dragon fruit and its effects on sperm quality and histology of the testes in mice. *Biomed Res* 2010;21(2):126-30.
63. Hadi NA, Mohamad M, Rohin MAK, Yusof RM. Effects of red pitaya fruit (*Hylocereus polyrhizus*) consumption on blood glucose level and lipid profile in type 2 diabetic subjects. *Borneo Science* 2012;31:113-29.
64. Siti RS, Rokiah MY, Mohd ASA, Asmah R. Hypocholesterolemic effect of spray dried pitaya powder (SDPP) among normocholesterolemic subjects in Mempaga, Bentong. *International Proceedings of Chemical, Biological & Environmental Engineering* 2012;39(Nutrition and Food Sciences):215-21.
65. von Elbe JH, Schwartz SJ. Absence of mutagenic activity and a short-term toxicity study of beet pigments as food colorants. *Arch Toxicol* 1981;49(1):93-8.
66. Schwartz SJ, von Elbe JH, Pariza MW, Goldsworthy T, Pitot HC. Inability of red beet betalain pigments to initiate or promote hepatocarcinogenesis. *Food Chem Toxicol* 1983;21(5):531-5.
67. Shakir SMM. Antioxidant capacity, safety and effects of *Hylocereus polyrhizus* (red dragon fruit) in stz-diabetic rats [dissertation]. Johor Bahru, Johor: Universiti Teknologi Malaysia;2009.
68. Hor SY, Ahmad M, Farsi E, Yam MF, Hashim MA, Lim CP, et al. Safety assessment of methanol extract of red dragon fruit (*Hylocereus polyrhizus*): acute and subchronic toxicity studies. *Regul Toxicol Pharmacol* 2012;63(1):106-14.

69. Cheng KW, Shi JJ, Ou SY, Wang M, Jiang Y. Effects of fruit extracts on the formation of acrylamide in model reactions and fried potato crisps. *J Agric Food Chem* 2010;58(1):309-12.
70. Damiani E, Aloia AM, Priore MG, Delle Donne P, Nettis E, Ferrannini A. Allergy to red pitaya. *Allergy* 2008;63(9):1252-3.
71. Kleinheinz A, Lepp U, Hausen BM, Petersen A, Becker WM. Anaphylactic reaction to (mixed) fruit juice containing dragon fruit. *J Allergy Clin Immunol* 2009;124(4):841-2.
72. Zhu T, Zhou D, Shu Q. Anaphylactic shock due to kiwifruit. *Am J Emerg Med* 2012;30(9):2096.e1-2.