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Development and validation of TLC method for determination of α -mangostin in young and ripe pericarp extract of *Garcinia mangostana* L. using TLC densitometry

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The increasing use of herbal medicines has raised concern with regards to the efficacy and safety of the products. Several examples on the harmful effects of herbal preparations have been reported. Several other medical issues were such as the compatibility of one herbal preparation with other drugs or herbal preparations, dosages, as well its true medical values, since very few comprehensive clinical evaluations were done on these products. In order to help the public understanding on the true benefits or potential harmful effects from the herbal products, suitable analyses method of the contents need to be established. Several methods have been in use to standardize herbal products such as the use of High Performance Thin Layer Chromatography (HPTLC) and High Performance Liquid Chromatography (HPLC). New paradigm and perhaps new technology are required in ensuring the safety and efficacy of these herbal products. In this presentation the author wishes to discuss a simple, fast and precise quantitative TLC method which has been developed for quantitative estimation of mangostin in young and ripe pericarp extract of *Garcinia mangostana*. Early study on the approaches taken up by the Pharmaceutical Research Laboratory in developing towards this goal will be highlighted.

Biography

Dachriyanus has completed his PhD from University of Western Australia in 1999. He got Professorship from Indonesian Ministry of Education in 2005. He has some collaborative research with University of Western Australia and University Putra Malaysia. His research is in chemical and biological activity studies of Sumatran Plants especially Genus *Garcinia*. He has 49 publications in this area. From 2005-2008, he held the position of Head of Department of Pharmacy, Andalas University and from 2008-2010 as a Dean Faculty of Pharmacy, Andalas University. In addition, he was appointed as Vice-president for academic affair of Indonesian Pharmacist Association in 2009. At present, he is a Vice Director for academic affair, Andalas University.

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