

ABSTRACT

Quality Control of Herbal Extract for Gout with TLC and HPTLC Chromatogram Fingerprint

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Gout is a metabolic disease associated with the accumulation of monosodium urate crystals (MUC) in joints and soft tissues. Plant extracts as active ingredients for herbal products used to overcome these problems include plant extracts of *Eugenia polyanthum*, *Physalis angulata*, *Sonchus arvensis*, *Plantago major*. To ensure the safety, quality and efficacy of each plant extract, quality control is necessary. The purpose of this literature review was to determine the chromatogram fingerprint of each plant extract that could be used as a quality control parameter. The chromatogram profile of each plant was determined by using thin layer chromatography and high-performance thin layer chromatography methods. The literature review method carried out by the researcher is narrative review of 4 scientific articles containing the chromatogram fingerprint of each plant extract with the validation parameters that have been met. Based on the literature review, it can be concluded that the chromatogram profile can be used as a quality control parameter using the TLC and HPTLC method on the extracts of *Eugenia polyanthum*, *Physalis angulata*, *Sonchus arvensis*, *Plantago major* in gout herbal products.

Keyword: gout, quality control, herbal product, TLC, HPTLC