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Der Pharmacia Lettre

Abstract

[Development and validation of HPTLC method for quantitative](#)

[analysis of 24-methylcycloartenol ferulic acid extracted from rice bran](#)

Author(s): Amol Pramod Muthal, Supada Rambhau Rojatkar and Subhash Laxmanrao Bodhankar

To develop, validate simple, precise, selective, and accurate high performance thin layer chromatographic (HPTLC) method for analysis of 24-methylcycloartenol ferulic acid in rice bran oil. The analysis was carried out on aluminum plates precoated with silica gel 60 F254 using toluene: ethyl acetate: methanol (15.0:1.7:3.3, v/v/v) as mobile phase. Developed plate was scanned at 317 nm. Tinidazole was used as internal standard. The retention factor for tinidazole, 24-mCAF and CAF were found to be 0.27 ± 0.02 , 0.72 ± 0.02 and 0.79 ± 0.02 respectively. The calibration curve was linear over a range of in the range of 200 – 1400 ng sopt-1 where as the correlation coefficient (r) for the plot was 0.999 for 24-mCAF. The proposed HPTLC method was validated in accordance with ICH guidelines. The HPTLC method was found to be precise, robust, accurate and rapid for quantitative estimation of 24-mCAF in rice bran oil extract.

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