

International Conference and Exhibition on

Fraditional & Alternative Medicine

December 09-11, 2013 Radisson Blu Plaza Hotel, Hyderabad, India

Fingerprint analysis of seeds of *Psoralea corylifolia* Linn. by UPLC with PDA detector

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A UPLC fingerprint analysis method was developed for the methanolic extracts of seeds of *Psoralea corylifolia* Linn. with photodiode array detector (UPLC-PAD). *Psoralea corylifolia* Linn. seeds were collected from Pharmacy, Central Research Institute of Unani Medicine, Hyderabad and extract was analyzed by using a reverse-phase Waters Acquity BEH C_{18} column (50 mm×2.1 mm, 1.7 μm). Various mobile phases investigated such as methanol-water, acetonitrile-water, and acetonitrile-buffer (containing orthophosphoric acid), the water (A)-acetonitrile (B) system was the ultimate choice. Gradient elution was carried out with mobile phase consisted of 0.1% OPA in (water:acetonitrile=10:1) (A) and acetonitrile (B) using a gradient program at a flow rate of 0.5 mL/min with detection at a wavelength of 254 nm. The chromatographic fingerprints showed different chemical constituents qualitatively in *Psoralea corylifolia* Linn. seeds, out of which psoralen peak identified corresponding to the retention time of standard psoralen and further confirmed by UV spectrum. The psoralen content in seeds extract of *Psoralea corylifolia* Linn. which is an active principle is accurately determined corresponding to that of standard Psoralen peak with a shorter run

Keywords: Fingerprint, Psoralea corylifolia, seeds, and ultra performance liquid chromatography

Biography

Mohd Abdul Rasheed N. has completed his master's degree in 2006 and pursuing his Ph.D. from CSIR-Indian Institute of Chemical Technology registered at Jawaharlal Nehru Technological University, Kukatpally, Hyderabad and presently working as a Research Assistant (Chemistry) at Central Research Institute of Unani Medicine, Hyderabad under Central Council for Research in Unani Medicine, New Delhi, Dept. of AYUSH, Govt. of India. He has published more than 25 papers in reputed peer reviewed national and international journals and presented papers in many conferences and seminars. He has been working and contributing his research in the area of herbal drugs and natural products.

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