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Access through your institutionVolume 54, April 2012, Pages 37-41 rights and contents► Optimization of ultrasound assisted extraction of glycyrrhizic acid from licorice ► The maximum yield of 36.4 mg/g is obtained at 10 min of extraction time, 30:1 solvent to solute ratio, 40 °C temperature and 25 kHz frequency. ► Ultrasound assisted extraction gives higher yield as compared with that of Soxhlet and batch extraction of GA. ► Extraction rate constant, initial extraction rate and equilibrium concentration are predicted based on model available in literature Ultrasound assisted extractionView full text 1. Aoki F, Nakagawa K, Tanaka A. Determination of glabridin in human plasma by solid-phase extraction and LC-MS/MS. *J Chrom B.* 2005;828:70-74. [PubMed] [Google Scholar]2. Fukai T, Satoh K, Nomura T. Preliminary evaluation of antinephritis and radical scavenging activities of glabridin from *Glycyrrhiza glabra*. *Fitoterapia.* 2003;74:624-629. [PubMed] [Google Scholar]3. 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[PubMed] [Google Scholar]Page 2Extracted amounts of GA and glabridin with different solvents.Compounds (mg/g) SolventsGAglabridinwater2.440.18methanol0.860.72ethanol0.860.93acetone1.86\*0.006chloroform\* [1] Pompei R., Fiore O., Marccialis M.A., Pani A., Loddo B., Glycyrrhizic acid inhibits virus growth and inactivates virus particles. *Nature.* 1979, 281, 689-690.10.1038/281689a0Search in Google Scholar[2] Bhattacharjee S., Bhattacharjee A., Majumder S., Majumdar S.B., Majumdar S., Glycyrrhizic acid suppresses Cox-2-mediated anti-inflammatory responses during Leishmania donovani infection. *J. Antimicrob. Chemother.* 2012, 67, 1905-1914.10.1093/jac/dks159Search in Google Scholar[3] Li Y., Sun F., Jing Z., Wang X., Hua X., Wan L., Glycyrrhizic acid exerts anti-inflammatory effect to improve cerebral vasospasm secondary to subarachnoid hemorrhage in a rat model. *Neurol. 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