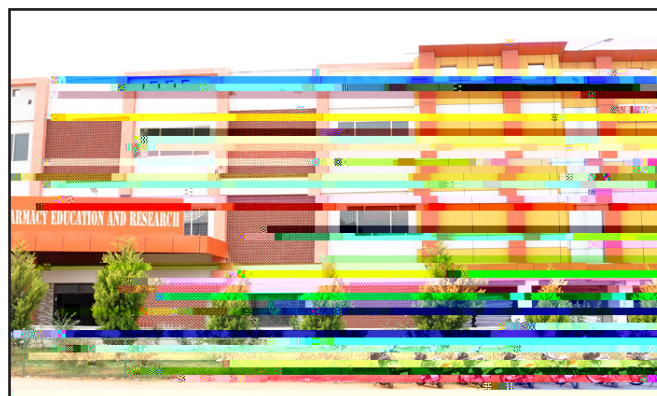




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Herbal medicinal plants are reported to contain multiple antidiabetic constituents. The present investigation was aimed to formulate capsule formulations containing isolated compounds from *Dregea volubilis* (DV) and *Lepadenia reticulata* (LR). In order to obtain antidiabetic formulations with more effective oral hypoglycemic activity, less side effects, increased patient compliance thereby providing multifaceted benefits (Venkatesan, 2013) (Venkatesan, 2014). DVLR (DV and LR isolated fraction was mixed in 1:1 ratio) capsules were formulated and the study was carried out for its anti-diabetic effect of STZ and HFD induced diabetic rats. Preformulation of capsules were found to be angle of repose and bulk density. Finished capsule formulations were evaluated for weight variation, pH, moisture content, disintegration time, in vitro-drug release percentage and in vivo antidiabetic studies. In our study showed empty capsule shell pH was observed as 3.62 and moisture content of capsule was found to be <5 % w/w which indicated that there were less chances of microbial growth and capsule will not become soft. Filled capsule passed the test for uniformity of weight, all capsules disintegrated within 7 minutes. Dissolution of capsule was found to be 94.17%. DVLR possesses significant blood glucose lowering and cholesterol lowering activities. The improvements in the lipid profile in diabetic animals after treatment with DVLR could be beneficial in preventing diabetic complications, as well as improving lipid metabolism in diabetic patients.

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