

عنوان مقاله:

Hypoglycemic effects of Lagenaria siceraria, Cynodon dactylon and Stevia rebaudiana extracts

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نویسندگان:

Dheeraj S. Randive

Mangesh A. Bhutkar

Somnath D. Bhinge

Kiran P. Shejawal

Poonam R. Sanap

Pranoti D. Patil

Suhas A. Mane

خلاصه مقاله:

**Introduction:** The aim of the current analysis was to judge the hypoglycemic action of the phyto-extracts of Lagenaria siceraria, Cynodon dactylon and Stevia rebaudiana using suitable in vitro approaches. **Methods:** The hypoglycemic activity of the phyto-material extracts was evaluated by employing various in-vitro methods namely glucose diffusion, amylolysis kinetics and glucose adsorption capacity. **Results:** The extracts of L. siceraria, C. dactylon and S. rebaudiana exhibited glucose dialysis retardation indices (GDRI) of ۴۸.۱۴%, ۳۷.۰۳% and ۲۹.۶۲%, respectively at ۶۰ minutes which were reduced to ۱۵.۷۸%, ۱۰.۵۲% and ۱۸.۴۲%, respectively at ۱۲۰ minutes. All the plant extracts used in the study adsorbed glucose and their adsorptions markedly enhanced with increase in sugar concentration. **Conclusion:** From the outcome of the assay it can be concluded that the extracts of L. siceraria, C. dactylon and S. rebaudiana have hypoglycemic activity as observed in various in-vitro assays. However, the beneficial actions require to be verified by adopting various in vivo techniques along with clinical trials for their efficient use as potential remedial moiety.

کلمات کلیدی:

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