

Biological and Chemical Study of *Cleome paradoxa* B.Br.

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ABSTRACT

The methanolic extract of *Cleome paradoxa* B.Br. and its different fractions (viz. hexane, chloroform, ethyl acetate and n-butanol) were tested for their antidiabetic activities. The ethyl acetate and hexane fractions exhibited the highest activities, which further subjected to chemical investigation. This study resulted in isolation of two compounds from the ethyl acetate fraction and three compounds from the hexane fraction. These compounds were identified using different spectroscopic methods as quercetin, quercetin-3-O-beta-D-glucopyranoside (isoquercetrin), alpha-amyrin, sitgmasterol and sitgmasterol-3-O-beta-D-glucopyranoside. The major compound isolated from ethyl acetate fraction, isoquercetrin, was assessed for its antidiabetic activity.

KEYWORDS

Cleome paradoxa . antidiabetic . antihyperglycemic . isoquercetrin

REFERENCES

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