

Rashid MMU, Hossain MR, Islam MN, Mostafa Kamal ATM, Yusuf ATM. Evaluation of cytotoxic and thrombolytic activities of methanolic extract of the flowers of *Sida acuta*. *Bull. Pharm. Res.* 2014;4(3):108-11.

Abstract: The methanolic extract of flowers of *Sida acuta* (MESAF) was subjected to cytotoxic activity evaluation by *in vitro* brine shrimp lethality bioassay and thrombolytic activity. In brine shrimp bioassay, the crude methanolic extract of flowers showed significant cytotoxic activity with LC₅₀ value of 74.20 µg/ml compared to 0.96 µg/ml, exhibited by standard vincristine sulphate. During thrombolytic activity evaluation, the methanolic extract of *S. acuta* flowers showed 24.733±8.017% lysis of clot while standard streptokinase (SK) and water, used as positive and negative controls, demonstrated 79.062±6.197% and 1.54±0.876% lysis of clot, respectively.

Key words: *Sida acuta*, Brine Shrimp bioassay, Thrombolytic activity, Cytotoxic activity.

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