



## Evaluation of the cytotoxic activity of stem and fruit of *Mindium laevigatum* (vent.) Rech.f. and Schiman-Czeika from Kashan

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**Background and Aims:** Genus *Mindium* (family campanulaceae) has three species in Iran and 7 in the world . In the warm season of 2011 *Mindium laevigatum* was collected from northwest of Kashan (Rahagh). In this study, methanolic extract of *M. laevigatum* were tested for possible cytotoxic activity using brine shrimp assay.

**Methods:** Total methanolic extract of the plant was obtained using a soxhlet apparatus. In the brine shrimp assay, three wells containing 10 nauplii were tested for each concentration (range of 10-1000µg/ml). After 24h, the number of dead nauplii was counted.

**Results:** The LC50 or (Lethal Concentration, 50%) values of stem and fruit extracts against brine shrimp were more than 1000 µg/ml.

**Conclusions:** In the brine shrimp bioassay, extracts were showed weak biological activity.

**Keywords:** *Mindium laevigatum*; Brine shrimp; Cytotoxic activity