

PHYTOCHEMICAL SCREENING AND ANTIBACTERIAL ACTIVITY OF *ELAEOCARPUS GENITRUS* (RUDRAKSHA) SEEDS

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Abstract: In the present investigation phytochemical and antibacterial activity of *Elaeocarpus ganitrus* (Rudraksha) seeds were studied with the methanolic and acetonetic extract. The major phytochemical constituents screened were tannins, flavonoids, steroids, reducing compounds carbohydrates and alkaloids, alcohol and protein. It has been observed that maximum phytochemical compounds were present in methanolic and acetonetic extract of *E. ganitrus*. The phytochemical screening was done to ascertain the presence of bioactive components present in selected plant extract. Antibacterial activity in terms of minimum inhibitory concentration (MIC) of the extracts was studied with paper disc diffusion method and zone of inhibition was measured in mm. It has been observed that MIC was ranging from 11.25-21.25 mm for methanolic and 15.5-22mm for acetonetic extract respectively. It is concluded that Rudraksha seeds have many useful phytochemicals and possess significant antifungal/antibacterial activity.

Keywords: Phytochemical screening, Antibacterial activity, Rudraksha

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