PHYTOCONSTITUENT ANALYSIS OF PETROLEUM ETHER LEAF EXTRACT OF OLAX SCANDENS AND STUDY OF ITS MOSQUITO LARVICIDAL POTENCY

SUDIP PARAMANIK, SAGARIKA MUKHERJEE AND MANAS PARAMANIK *

Plants are abundant reservoirs of phytochemicals, some of which have human-beneficial potential, including vector control. In the current investigation, phytochemical scrutiny of the petroleum ether extract of Olax scandens leaves showed the existence of carbohydrates, phenols, tannins, steroids, and triterpenoids; while FT-IR analysis revealed the existence of –COOH, –CO, and other functional groups. The extract showed Culex quinque fasciatus larvicidal potency (LC₅₀ = 17.84 ppm in 72 hours). So, investigation of this plant may offer several useful phytochemicals.