

E2-54: Larvicidal activity of the constituents of *Clausena lansium* root bark

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The root bark extract of *Clausena lansium* (Sinh. Rata- Karapincha), a small tree native to China and cultivated in Sri Lanka was found to show *Aedes* larvicidal activity.

Chemical analysis of the extract showed the presence of coumarins, chalepsin, gravelliferone, chalepsin and angustifoline and 2 carbazole alkaloids, including indizoline and a new carbazole alkaloid, which was shown to have a 7-hydroxyheptaphylline structure.

The compounds isolated were tested for *Aedes* activity and a coumarin, chalepsin (3-1',1'-dimethylallylfuranocoumarin) was shown to have

larvicidal activity, in comparison with the activities shown by the extract.

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