

## Abstract

The antifeedant activities of the *Erythrina* alkaloids from the seeds, seed pods and flowers of *Erythrina latissima* were investigated in laboratory dual-choice bioassays using third-instar *Spodoptera littoralis* (Boisduval) larvae. The new compound (+)-11 $\beta$ -methoxy-10-oxoerysotramidine (**1**) from the flowers, showed potent dose dependant activity at concentration  $\geq 500$  pm while (+)-10,11-dioxoerysotramidine (**2**) also new from the flowers showed potent dose dependant activity at concentration  $\geq 100$  ppm. Three known compounds (+)-erysotrine, (+)-erysotramidine, (+)-erythraline, (+)-11 $\beta$ -hydroxyerysotramidine showed potent dose dependant antifeedant activity at concentrations  $\geq 100$  ppm while (+)-10,11-dioxoerysotrine and (+)-11 b-hydroxyerysotramidine also a known compounds showed potent dose dependant antifeedant activity at concentrations  $\geq 100$  ppm. Three known compounds (+)-11 $\beta$ -methoxyerysotramidine, (+)-8-oxoerythraline and (+)-15(16) b -D-glucoerysodine showed no appreciable change in antifeedant activity with concentration change.