

Antiplasmodial activity of compounds from the surface exudates of *Senecio roseiflorus*

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Abstract:

From the surface exudates of *Senecio roseiflorus* fourteen known methylated flavonoids and one phenol were isolated and characterized. The structures of these compounds were determined on the basis of their spectroscopic analysis. The surface exudate and the flavonoids isolated showed moderate to good antiplasmodial activity with 5,4'-dihydroxy-7-dimethoxyflavanone having the highest activity against chloroquine-sensitive (D6) and resistant (W2) strains of *Plasmodium falciparum*, with IC₅₀ values of 3.2 +/- 0.8 and 4.4 +/- 0.01 microg/mL respectively.