

ABSTRACT

Two Malaysian plants viz., *Kopsia pauciflora* and *Kopsia grandifolia* were investigated for their alkaloidal constituents. A total of 40 alkaloids were isolated and characterized from *K. pauciflora*, of which 12 are new alkaloids. The new alkaloids isolated include seven aspidofractinine alkaloids (**1**, **2**, **3**, **4**, **5**, **6**, **7**), and five eburnane alkaloids (**8**, **9**, **10**, **11**, **12**). *K. grandifolia* yielded a total of eight alkaloids. Of these, three are new. The new alkaloids are grandilodine A (**41**), grandilodine B (**42**), and grandilodine C (**43**). Grandilodine A (**41**), grandilodine C (**43**), and lapidilectine B (**47**) were found to reverse multidrug resistance in vincristine-resistant KB cells.

ABSTRAK

Dua jenis tumbuhan dari Malaysia iaitu *Kopsia pauciflora* dan *Kopsia grandifolia* telah dikaji dari segi kandungan alkaloidnya. Sebanyak 40 alkaloid telah diasingkan dan dicirikan dari *K. pauciflora*, di mana 12 alkaloid adalah baru. Alkaloid-alkaloid baru tersebut terdiri daripada tujuh alkaloid *aspidofractinine* (**1, 2, 3, 4, 5, 6, 7**), dan lima alkaloid *eburnane* (**8, 9, 10, 11, 12**). *K. grandifolia* telah menghasilkan sebanyak lapan alkaloid. Di kalangan alkaloid-alkaloid itu, tiga alkaloid adalah baru. Alkaloid-alkaloid baru tersebut ialah grandilodine A (**41**), grandilodine B (**42**), dan grandilodine C (**43**). Grandilodine A (**41**), grandilodine C (**43**), dan lapidilectine B (**47**) telah menunjukkan aktiviti dalam *reversal of multidrug resistance in vincristine-resistant KB cells*.