

CHAPTER V

CONCLUSION

Three compounds: 4-hydroxy-4,7-dimethyl- α -tetralone, 4,5-dihydroblumenol A and 24-methylenelanosta-7,9(11)-dien-3 β ,15 α -diol were isolated from the stem bark of *Polyalthia jucunda* (Pierre) Finet & Gagnep. The structures of these compounds were established by spectroscopic analysis. All the compounds were evaluated for their capacity to inhibit growth of four human tumor cell lines [ER (+) MCF-7, ER (-) MAD-MB-231, SF-268 and NCI-H460] and one non-tumor cell line (MRC-5). Only 24-methylenelanosta-7,9(11)-dien-3 β ,15 α -diol exhibited a dose-dependent growth inhibitory effect against all human tumor cell lines but weaker effect on the non-tumor cell line.

This is the first report of chemical investigation and biological evaluation of the constituents of *Polyalthia jucunda* (Pierre) Finet & Gagnep. The results obtained could be valuable for future chemotaxonomic and phytochemical studies of the plants of this genus.