

CHAPTER V

CONCLUSION AND RECOMMENDATION

The chloroform extract of *Xyris indica* Linn. flowering heads has been examined for the presence of three anthraquinones, two phytosterols and two new isocoumarins. The structure of these compounds were elucidated by means of spectral interpretation and identified as chrysazin (XI-1), 3-methoxy chrysazin (XI-2), 3-hydroxy chrysazin (XI-3), stigmasterol (XI-4), α -spinasterol (XI-5), xyridin A (XI-6) and xyridin B (XI-7) respectively. Full characterisation of the two new compounds has been performed and discussed.

Chrysazin were reported to be the carcinogen for large intestine and liver of mice and also induction of intestine tumors in rats (Mori *et al*, 1985).

All of the isolated compounds have never been reported from this species before. The present investigation has led to find the constituents occurring in this particular species.

Xyris indica Linn. was claimed for curing ringworm, itch and leprosy (Kirtikar and Basu, 1981). Therefore, further studies of biological activities of these isolates is the most interesting point

to be recommended.