ABSTRACT
Fraction of 95% ethanolic extract of the seeds of Crotalaria prostrata hottl. It was identified as: 4'-O-methyl carthamin 7-O-β-D-(2''-O-β-Coumaroyl) glucopyranoside by various colour reactions, chemical degradations and spectral data.

\[
\begin{align*}
\text{(I)}
\end{align*}
\]

Chapter - III

Isolation and Study of a Novel Flavone Glycoside; Kaempferol 7-O-β-D-Glucopyranosyl (1→4)-O-β-D-Xylopyranoside from the Seeds of Crotalaria Laburnifolia Linn. (N.O. Leguminosae).

The chloroform soluble fraction of 95% ethanolic extract from the seeds of Crotalaria laburnifolia Linn. has been described in this chapter. The study of a novel flavone glycoside yield (0.040%) when worked up gave a novel flavone glycoside molecular formula \( C_{26}H_{28}O_{15} \), m.p. 237-38°C, \([M]^+ 580 (EIMS)\). It was identified by different colour
reactions, chemical degradation and spectroscopic analysis as; kaempferol 7-O-β-D-glucopyranosyl (1→4)-O-β-D-xylo-
pyranoside.

\[ \text{CH}_2\text{OH} \quad \text{HO} \quad \text{H} \quad \text{H} \quad \text{OH} \quad \text{H} \quad \text{OH} \]

\[ \text{HO} \quad \text{H} \quad \text{H} \quad \text{OH} \quad \text{H} \quad \text{OH} \]

**CHAPTER IV**

**ISOLATION AND STUDY OF A NOVEL FLAVANONE GLYCOSIDE; AROMADENDRIN 7-O-α-L-RHAMNOPYRANOSYL (1→4)-O-β-D-
GALACTOPYRANOSIDE FROM THE SEEDS OF CROTALARIA LABURNIFOLIA Linn. (M.O. LEGUMINOSAE).**

This chapter deals the study of a novel flavanone glycoside yield (0.048%) molecular formula C_{27}H_{32}O_{15}, m.p. 190-91°C, $[\alpha]_D^+ 596 (\text{LIMS})$, obtained from the methanol soluble part of the concentrated water soluble fraction of 95% ethanolic extract of the seeds of Crotalaria laburnifolia Linn., which was identified as; Aromadendrin 7-O-α-L-
rhamnopranosyl (1→4)-O-β-D-galactopyranoside by various colour reactions, chemical degradations and spectral analysis.
CHAPTER V

ISOLATION AND STUDY OF A NOVEL FLAVANOL GLYCOSIDE; TAXIFOLIN 3-O-β-D-GALACTOPYRANOSYL (1→6)-O-β-D-GLUCOPYRANOSIDE FROM THE SEEDS OF CROTALARIA PROSTRATA ROTTL. (N.O. LEGUMINOSAE).

The isolation and identification of a novel flavanol glycoside yield (0.056%) from the methanolic extract of the concentrated water soluble part of 95% ethanolic extract of the seeds of Crotalaria prostrata Rottl., molecular formula \( C_{27}H_{32}O_{17} \), m.p. 200-201°C, \([M]^+ 628\), which was identified as; Taxifolin 3-O-β-D-galactopyranosyl (1→6)-O-β-D-glucopyranoside on the basis of the different colour reactions, chemical degradations and UV, IR, \(^1\)HNMR and Mass spectroscopy, as been described in this chapter.