

CHAPTER - 3

MATERIALS AND METHODS

Capitula at different stages of development were collected from various sources and fixed in Formalin-Acetic-Alcohol. (F.A.A). The composition of which is 90 c.c. of 70% alcohol, 5 c.c. of Formaldehyde and 5 c.c of Glacial acetic acid.

Details about the source of material and collection are given below:

Species investigated	Collected by	Locality
Tribe: Cardueae		
<u>Cirsium acaule</u> Scop.	Dr. T. Pullaiah	Botanical Gardens of Moscow State Univ., U.S.S.R.
Tribe: Mutisieae		
<u>Dicoma tomentosa</u> Cass.	Author	S.K. University campus.
Tribe: Cichoreae		
<u>Lactuca leucophaea</u> A Gray.	Dr. T. Pullaiah	Botanical Gardens of Moscow State Univ., U.S.S.R.
<u>L. runcinata</u> DC.	Author	S.K. University campus

Species identifications to the above materials

were made with the help of Gamble's 'Flora of Presidency of Madras' and Bailey's 'Manual of cultivated plants'. Voucher specimens were deposited in the Herbarium of Bio-Science Department of Sri Krishnadevaraya University.

Material was dehydrated in Tertiary butyl alcohol series. Embedding was done in paraffin of 58°-60° C melting point. Microtome sections were cut 6-13 μ thickness depending on the stage of the development on a Rotary Microtome. Mayer's egg albumen was used as adhesive. Staining was done in Delafield's haematoxylin and mounted with Canada balsam.