









**Table: 7 Behavior of Leaf, Stem and Root Powders of *Ecbolium viride* with different Chemical Reagents**

Reagents	Leaf		Stem		Root	
	Color/ ppt	Constituent	Color	Constituent	Color	Constituent
Picric acid	Yellow ppt with crystals	Alkaloids (+)	Yellow crystals	Alkaloids +	Yellow ppt with crystals	Alkaloids +
Conc. H <sub>2</sub> SO <sub>4</sub>	Reddish brown	Steroids/ Triterpenoids (+)	Red-Brown	Steroids/ Triterpenoids (+)	Brown	Steroids/ Triterpenoids (+)
Aq. FeCl <sub>3</sub>	Black green ppt	Tannins (+)	Light green ppt	Tannins (-)	Black ppt	Tannins (+)
I <sub>2</sub> Solution	Reddish brown ppt	Starch (+)	Red black ppt	Starch (+)	Brown green	Starch (+)
NH <sub>3</sub>	Green ppt	Anthraquinone glycosides (-)	Whitish green	Anthraquinone glycosides (-)	Light green ppt	Anthraquinone glycosides (-)
5% Aq. KOH	Pale green	Anthraquinone glycosides (-)	Pale green	Anthraquinone glycosides (-)	Light brown	Anthraquinone glycosides (-)
Mayers Reagent	Ppt	Alkaloids (+)	Greenish white	Alkaloids (+)	Light Brown-green	Alkaloids (+)
Aq. AgNO <sub>3</sub>	White ppt	Proteins (+)	White ppt	Proteins (+)	ppt	Proteins (+)
Aq. NaOH	Light yellow-red	Flavonoids (+)	Yellow-green ppt	Flavonoids (+)	Brown-red	Flavonoids (+)
Mg-HCl	Magenta	Flavonoids (+)	Magenta	Flavonoids (+)	Magenta	Flavonoids (+)
Dragendroff reagent	Red-Orange	Alkaloids (+)	Red-Orange	Alkaloids (+)	Red-Orange	Alkaloids (+)
Aq. Lead acetate	White ppt	Tannins (+)	White ppt	Tannins (+)	Greenish White ppt	Tannins (+)

‘+’ indicates Present ; ‘-’ indicate Absent

#### CONCLUSION:

Microscopic analysis and qualitative parameters are carried out in order to establish appropriate data that can be used in identifying crude drugs. The physical constants such as Total Ash value (23.16% w/w), Acid insoluble ash (16.97% w/w) are specific identification. The soluble extractive values with solvents such as Hexane, Dichloromethane, Chloroform, Ethyl acetate, Petroleum ether (60-80<sup>0</sup>), Methanol and Water were (2.569% w/w, 3.449% w/w, 2.934% w/w, 2.335% w/w, 4.27% w/w, 8.125% w/w and 18.025% w/w) respectively, which indicates the nature of constituents present. The behavior of the plant powder upon treatment with different chemical reagents and histochemical color reactions were observed and reported. Fluorescence studies of powder with various reagents were observed under UV light. As there is no pharmacognostical work on record, the present work could be therefore be used as one of the tool for standardization of crude drug to identify and decide the authenticity of drug in herbal industry.

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