

RESULTS AND DISCUSSION

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The present work was carried out on the leaf of the Alocasia indica plant of Family - Araceae.

The leaves of plants were studied for its macroscopial and microscopial characteristics. The powder characteristics were also studied. The presence of different cell arrangement and cell structures are important for the authenticity of leaves. They can be identified by these characters. The different physical standards are also determined.

The physical standards of leaves are ash value - 7 %w/w, moisture content - 80.120 %w/w

The different extracts were prepared by using different solvents. Their extractive value were given. The petroleum ether extractive value is 1.715 %w/w and methanol extractive value is 37 %w/w. The powder of leaves was extracted with different solvents by the soxhlet extractor by petroleum ether [60-80°C]. The steroids were found to be present in the petroleum ether extract. The thin layer chromatography was done for the separation of some components by using different solvents. In the same way the extracts of Methanol, Ethanol, and water were prepared.

The TLC was also done for Methanol extract. The methanol, ethanol and water soluble extract shows the presence of free sugars, glycosides, tannins and saponins. The water soluble extract was fractionated and the sugar part of the water soluble extract was used for the detection of the total sugars. The total sugars are found out to be 0.151 gms. in 100 gm. leaf plant material. Also the maltose sugar was determined by following the tests for carbohydrates. The minerals were estimated by the Atomic absorption spectrophotometry.

From the above analysis it is clear that the leaves of Alocasia indica plants are medicinal and the glycoside present may be responsible for the curing of Jaundice.