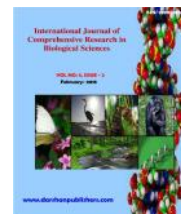


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Research Article

FTIR CHARACTERIZATION OF THAALAGA KARUPPU

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Abstract

Thaalaga karuppu is a mineral formulation in siddha system of medicine. This formulation is reference from gunapadam thathu jeevam and indicated for eraippiu irumal (bronchial asthma). The purpose of this paper is analyse the functional groups in thaalaga karuppu.

Keywords: FTIR, siddha medicine, Thaalagam, Asthma

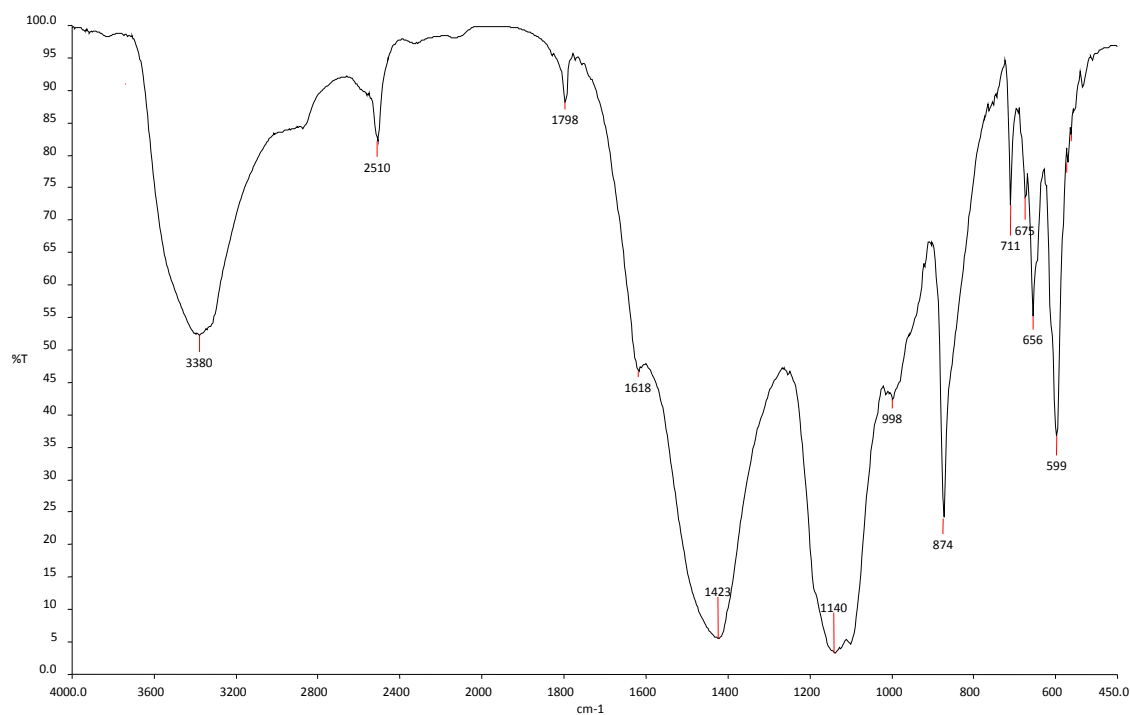
Introduction

Siddha system of medicine is ancient unique system of medicine. It classified 4448 diseases and gives information to treat the diseases. Siddha system prepares medicine from three natural raw sources of thathu, thavara, and sangamam.

Materials and Methods

Thaalaga karuppu is used for Bronchial asthma. The drug have been purchased from IMPCOPS Siddha & Ayurvedha pharmacy. "Thaalaga karuppu" is a siddha formulation which indicated as a drug in siddha sastric text.

Results



Results of *Thaalaga karuppu*

Wavelength	Vibrational modes of IR region	Functional group
3380	O-H STRETCH	alcohol
2510	O-H STRETCH	acid
1798	C=O STRETCH	carbonyl
1618	C=C STRETCH	alkene
1423	C-F STRETCH	Alkyl halide
998	C-H BENDING	alkene
874	C-H BENDING	alkene
711	C-H BENDING	alkene
675	C-H BENDING	alkene
656	C-CL STRETCH	Alkyl halide
599	C-Br STRETCH	Alkyl halide

Discussion

The presence of some organic functional groups such as, alcohol, acid, alkene, carbonyl, alkyl halide were identified in the siddha medicine "*Thaalaga karuppu*".

Conclusion

The presence of functional group Alcohol is majorly indicates to increase High Density Lipoprotein which is protective for Atherosclerosis. Because alcohol has favourable effects on HDL cholesterol and to treat bronchial asthma because in presence of yellow arsenic These FTIR characterization findings of siddha drug “*Thaalaga karuppu*” creates the finger prints of standardize this drug. These results may form the base for further structural determination of this siddha formulation “*Thaalaga karuppu*”.

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