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ICP-OES Analysis of Manosilai Choornam

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Abstract

Manosilai choornam is a wonderful herbomineral formulation [HMF] in siddha. It has been widely used in therapeutic management of fever. In siddha most of the herbomineral medicines are effective but the lack of standardization, so there is a need to develop standardization technique. This paper revealed the therapeutic safer level of elements {Al,As,Ca,Cd,Cu,Fe,Hg,K,Mg,Na,Ni,Pb,P,S,Zn} present in manosilai choornam with scientific documentation.

Keywords: Manosilai choornam, HMF, ICO-OES, Siddha, Fever.

Introduction

Siddha is a unique healing system that treats not only the body but also rejuvenates the soul. Herbomineral medicines are continued to play important role in health care system of large number of world population. Now a day's people interest on siddha medicine has taken up great dimension in changing the health care scenario across the globe.

Manosilai choornam have been used for the management fever in traditionally. In present scenario standardization is need to prove the safety level of any medicine. This may help the acceptance of medicine worldwide.

Materials and Methods

Table: 1 Ingredients of manosilai choornam:

S: no	Ingredients	Chemical / botanical name	Part used	Quantity
1	Manosilai	Arsenic disulphidum	-	5 gram
2	Moongil uppu	<i>Bambusa arundinacea</i>	Crystal like substance	5 gram
3	Kombarakku	<i>Carteria lacca</i>	Yellow wax	5 gram
4	Karunjeeragam	<i>Nigella sativa</i>	Fruit	5 gram
5	Kasthuri manjal	<i>Curcuma aromatica</i>	Rhizome	5 gram
6	Kalarchi paruppu	<i>Caesalpinia bonducella</i>	Seed	5 gram

Collection of raw drugs:

All the drugs are purchased from a famous drug shop in Nagarcoil.

Authentication of raw drugs:

All the above drugs are Authenticated by Associate professor Dr. A. Kingsly M.D(S)., HOD, Department of PG Gunapadam, Govt. Siddha Medial College and Hospital, Palayamkottai.

Purification of raw drugs:

Manosilai is grinded well with ginger juice for 3 hours on kalvam without interruption and the other drugs are purified as mentioned in agathiyar vaithiya kaviyam.

Preparation of manosilai choornam:

All the ingredients were powdered separately and sieved then mixed together.

Dosage: 1 gram

Adjuvant: Honey

ICP-OES Study of manosilai choornam:

Sample preparation:

Inductively coupled plasma spectroscopy techniques are the so-called “wet” sampling methods whereby samples are induced in liquid form for analysis.

100mg sample was added in a clean dry test tube. To this, 3 ml of nitric acid was added and mixed well and above mixture allowed for few minutes until the reaction were complete. And then, 25 ml of refined water was added to prepare digested solution. The digested sample solution was shifted into plastic containers and labeled properly.

Results

Table : 2

S:No	Elements	Level
1	Al 396.152	BDL
2	As 188.979	BDL
3	Ca 315.807	70.180 mg/L
4	Cd 228.802	BDL
5	Cu 327.393	BDL
6	Fe 238.204	02.376 mg/L
7	Hg 253.652	BDL
8	K 766.491	83.821 mg/L
9	Mg 285.213	01.104mg/L
10	Na 589.592	73.320mg/L
11	Ni 231.604	BDL
12	Pb 220.353	BDL
13	P 213.617	106.341mg/L
14	S 180.731	01.314mg/L
15	Zn 206.200	00.228mg/L

Discussion

Heavy metal Viz. lead, cadmium, mercury, arsenic and the other mineral of manosilai choornam on table 2 was found to be within the permissible limits as per WHO guidelines.

The manosilai choornam was free from toxicity there by proving the safety of its utilization in siddha system.

Conclusion

It is concluded that documentation of ICP-OES analysis of manosilai choornam. So this study is a step forward to scientific validation of manosilai choornam.

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References

1. Dr.R.Thiyagarajan,L.I.M Gunapadam Thathu Jeeva vaguppu Eighth edition,2013 (part II & III) , published by Directorate of Indian Medicine and Homeopathy, Chennai. (Page no : 352).
2. Mr. Murugesha muthaliyar,Siddha Materia Medica, Second edition reprint, 2008 Published by Indian Medicine and Homeopathy, Chennai.
3. Dr.S.Somasundaram M.SC.,M.Phill., E.S.M.P., P.hd Medicinal Botany Vol. 1 Fifth edition 2009.
4. Agathiyar vaidhiya kaviyam-1500 second edition 2001, Published by Thamarai noolagam, Chennai.
5. Kirubakaran R, Subathra D, Poongodi Kanthimathi A S, Ganesan G, Vanamamalai R. (2018). Standardization And Characterization Of Manosilai Mathirai through ICP-OES. Int. J. Curr. Res. Chem. Pharm. Sci. 5(5): 13-15.

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