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Physicochemical Analysis of Induppu choornam

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Abstract

Induppu choornam is one of the most famous herbomineral formulation [HMF] in siddha , that are used traditionally in ascites and vomiting. This paper deals with the physicochemical analysis of induppu choornam and may help the researcher to explore more about the importance of siddha herbomineral formulation.

Keywords: HMF – Herbomineral formulation, Induppu choornam, Ascites, Vomiting.

Introduction

There are many traditional system of medicine in the world, each associated with different philosophies and cultural origin. In recent years the use of traditional medicine has increased significantly, particularly the

siddha system has been a major source of treatment for human disease.

The herbomineral medicines are promising choice over modern synthetic drug. This induppu choornam [HMF] preparation used since long and are claimed to be the very effective and potent dosage form.

Materials and Methods

Table-1 Ingredients of induppu choornam:

S.no	Ingredients	Chemical/botanical name	Part used	Quantity
1	Induppu	Rock salt	-	5gram
2	Seeragam	<i>Cuminum cyminum</i>	Fruit	5gram
3	Oomam	<i>Trachyspermum ammi</i>	Fruit	5gram
4	Thippili	<i>Piper longum</i>	Fruit	5garm
5	Chukku	<i>Zingiber officinale</i>	Rhizome	5gram

Collection of drugs:

All drugs are purchased from a well reputed drugs 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 medical college and hospital, Palayamkottai,Tamilnadu India.

Purification of raw drugs:

All the drugs are purified as mentioned in agathiyar vaithiya kaviyam.

Preparation of induppu choornam:

Purified drugs should be crushes into small pieces and grind the each ingredient separately, make a fine powder of each drug and mixed them together.

Dosage:

12grams.

Physico – Chemical analysis:

Physico chemical analysis of purified Induppu Chooranam was carried out as per standard procedures recommended in WHO Guideline (Anonymous 1988). Loss on drying, Total ash, Acid insoluble ash, Water soluble extractives, Alcohol soluble extractives and PH were carried out.

Results

Table – 2 Physicochemical analysis of induppu choornam [Values are mean of three determinations ±SEM]

Parameters	Total ash	Values
Ash value	Water soluble ash	3.60±0.011
	Acid insoluble ash	0.95±0.010
Extractive value	Ethanol soluble extractive value	8.20±0.310
	Water soluble extractive value	9.10±0.410
Loss on drying	Loss on drying at 70°C	9.63±0.340
pH Analysis		6.980

SEM – singularity expansion method

Discussion

In house formulated induppu choornam [HMF] was prepared as procedure mentioned in Dr.R. Thiyagarajan,L.I.M Gunapadam Thathu Jeeva vaguppu Eighth edition,2013, (Page no : 372).

Induppu choornam [HMF] is a fine powder, brown in colour , possess herbal odour and slightly salty astringent in taste. This induppu choornam was evaluated based on different physical and chemical evaluation parameters.

Conclusion

The result of physicochemical analysis of induppu choornam [HMF] presented in Table-1.

In physicochemical analysis Ash value are used to determine the quality and purity of drugs. The extractive values are useful to evaluate the presence

of chemical constituents and also help in estimation of specific constituent soluble in a particular solvent. High extractive value given idea of a amount of phytoconstituents and less indicates adulteration. Loss of drying helps to determine the moisture content, and pH value measure the acidity or alkalinity.

The result of present study indicate the physicochemical analysis of induppu choornam [HMF] showed that the result of all the parameters were within normal limits. These findings will certainly help in the standardization of induppu choornam [HMF].

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