



Research Article

FORMULATION AND EVALUATION OF HERBAL AYURVEDIC FORMULATION BHRNGAMALKADI TAILA

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ABSTRACT

Bhrngamalkadi Taila is an ancient Ayurvedic formulation used in treatment of various diseases such as Svava Ksaya (Laryngitis), Badhiratva (deafness), Palita (Greying of hair), Dantacalana (Dentifrices) etc. even though Bhrngamalkadi Taila is having great significance, no extensive data available for its standardization. The present work intends to prepare and standardize Bhrngamalkadi Taila by various physicochemical parameters.

Keywords: Bhrngamalkadi Taila, Ayurveda, Standardization

INTRODUCTION

The Ayurvedic medicines are divided into three classes, namely herbal, mineral and animal on the basis of material origin. Out of these, herbal formulation has achieved great importance and rising global attention recently. This scenario is obvious as major increase in the herbal formulation usage has been observed throughout the last few years in developed world, where market expansion occurred in European countries and USA. The World Health Organization (WHO) estimates that 80% of the world's inhabitants still rely mainly on traditional medicines for their health care.^{1,2,3}

Development of Ayurvedic formulation with appropriate standardization and quality control is the first requisite in the present era that fulfills increasing demands of global population. Though traditional formulations are effective, there is no complete data is available for quality control and their evaluation. To overcome these problems there is a need to developed standardization parameter. In the current attempt; it is planned to prepare and standardize Bhrngamalkadi Taila by various physicochemical parameters.

MATERIAL AND METHODS

Preparation of Bhrnga rasa

It was prepared by mixing the Bhrnga powder with water. The mixture was heated on water bath up to reduction of one fourth of the original volume of water and then filtered.⁴

Preparation of Amalaki rasa

It was prepared by mixing the Amlaki powder with water. The mixture was heated on water bath up to reduction of one fourth of the original volume of water and then filtered.⁴

Preparation of Bhrngamalkadi Taila

All the ingredients were weighed accurately and placed separately. Prescribed quantity of taila was subjected for heating on water bath, after sufficient heating prescribed quantity of Yashti powder, Bhrnga rasa and Amlaki rasa was added. This mixture was stirred intermittently till the mixture produce sufficient consistency. As soon as this stage was attained, the heating was stopped; ksira was added to the mixture and further heated on water bath. The mixture was filtered when hot and used for further analysis.⁵

Table 1: Formulation Table

Sr. No.	Ingredient	Botanical Name	Part	Quantity
1	Bhrnga Rasa	<i>Eclipta alba</i>	plant	768 ml
2	Amlaka Rasa	<i>Phyllanthus emblica</i>	Pericarp	768 ml
3	Taila	Oil	-	768 ml
4	Ksira	Milk	-	3.072 lit
5	Madhuka	<i>Glycyrrhiza glabra</i>	Root	48 gm

Organoleptic evaluation

Different parameters were studied such as color, odor and taste.⁶

Physicochemical evaluation

The physicochemical evaluation was carried out with respect to acid value, saponification value, peroxide value, refractive index, viscosity, density, pH and total solid content as per standard methods.^{6,7}

Preliminary Phytochemical analysis

The formulation was then subjected to preliminary phytochemical screening to detect the presence of various phytoconstituent as per standard methods.⁸

RESULTS AND DISCUSSION

The observations for the organoleptic evaluations were reported in Table 2 where it was found that formulation was Brownish white color, with a characteristic odor and Sweet and astringent taste.

Table 2: Organoleptic properties of Bhrngamalkadi Taila

Evaluation Parameter	Observation
Colour	Yellowish brown
Odour	Characteristics
Taste	Sweet & astringent

Physical Parameters

The observations for the physical evaluations were reported in Table 3 where it was found that formulation have all the value within the standard limits.

Table 3: Physical properties of Bhrngamalkadi Taila

Evaluation Parameter	Observation
acid value	0.630 ± 0.00
saponification value	152 ± 2.08
peroxide value	4.35 ± 0.20
Refractive index	1.15 ± 0.03
Viscosity	1.37 ± 0.02
total solid content	3.48 ± 0.12
pH	4.00 ± 0.00
Density	0.03 ± 0.00
Optical rotation	3.52 ± 0.12
Specific gravity	4.32 ± 0.00

Phytochemical analysis

The information about phytoconstituents available in the formulation drug were tabulated in Table 4 which shows the presence of glycosides and tannins as a major secondary metabolite.

Table 4: Phytochemical properties of Bhrngamalkadi Taila

Evaluation Parameter	Observation
Carbohydrates	+++
Amino acids	+
Glycosides	++
Flavonoids	++
Alkaloids	+
Tannins	++
Steroids	-

CONCLUSION

The study shows that Bhrngamalkadi Taila is to be best taila formulation with good quality and purity, all these investigations were may be helpful in authentication and standardization of Bhrngamalkadi Taila. The result of present study will also serve as reference monograph in the preparation of drug formulation.

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