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Pharmaceutical Standardization of *Drakshadi*Gutika

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ABSTRACT

Vati kalpana is a formulation of Ayurvedic Pharmaceutics developed basing upon the Panchavidha Kashaya Kalpana in which the fine powder of raw drugs (Herbal or Herbo-mineral) are triturated along with liquid media to a fine paste, prepared in the form of pills or tablets. It is the modified form of kalka kalpana to increase the shelf life. The synonyms of Vati (tablets) are Gutika (pills), Modaka (Large size pills) and Varti (draggees). These are the names given for Vati Kalpana on the basis of shape, palatability, easy administration, convenient form for dispensing and transportation are the asset points of Vati Kalpana. Drakshadi Gutika mentioned in Yogartnakara in amplapittachikitasa¹ is chosen for the present study is because of its simple ingredients and easy method of preparation. An attempt is made here to analyze the parameters of Gutika Kalpana as per API standards for Drakshadi Gutika, like Loss on drying, Total Ash Value, pH, Alcohol soluble extractive, Water soluble extractive Acid Insoluble ash, water insoluble ash, starch, alkaloids, Saponin, flavonoids, glycosides, tannins and steroids.

Key Words Drakshadi Gutika, Amlapittachikitsa, Analytical parameter

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INTRODUCTION

The five basic classical forms of 'Panchavidha kashaya' through which all other formulations are developed in Bhaishajya kalpana of Ayurveda Pharmaceutics. Vati Kalpana is a modified form Kalka Kalpana to increase the shelf life, for easy administration and also make it palatable. The synonyms of Vati (tablets) are Gutika (pills) and Modaka (Large size pills) and Varti (draggees). These are the names given for Vati Kalpana on the basis of shape and size. Vati Kalpana is highlighted by acharya Sharangadhara

in his text book which is considered as one of the authentic samhita of Bhaishajya Kalpana. It has better shelf life as compared to kalka Kalpana. Moreover, it overcome the drawbacks such as bitterness and less palatability. On the name of Drakshadi gutika one can have two formulations from classics. In the present study, Drakshadi gutika taken from Yogaratnakara *Amlapitta Prakarana*. The ingredients of Drakshadi gutika can be easily procurable which fulfill the criteria of *Dravya Chatushpada*². In recent era Amlapitta, a common disorder found in daily





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clinical practice can be easily treated with the above in view of its easy administration.

Standardization of an ayurvedic formulation is a great need of present era. Phytochemical studies of a plant are necessary for understanding the significance of phytoconstituents in terms of its observed activities. Phytochemistry also helps in standardizing the herbal preparations so as to get the optimal concentration of known active constituents. It also provides the objective parameters to fix up the standards for quality of raw drugs as well as finished products. Therefore, standardization of the finished product is an essential prerequisite to ensure its safety and efficacy.

MATERIALS AND METHODS

द्राक्षापथ्ये समे कृत्वा तयोस्तुल्यां सितां क्षिपेत । संकृटयाक्षद्वयमितां तत्पिण्डीं कारयेद्धिषक ।।१।। तां खादेदम्लिपत्तार्तो हत्कण्ठदहनापहाम् । तृण्मूर्च्छाभ्रममन्दाग्निनाशिनीमामवातहाम् ।।२।। Yogaratanakara – (Amlapittachikitsa)

Principle – Trituration

Table 1 The ingredients of Drakshadi Gutika

Sr. No.	Ingredients	Botanical name	Batch 1	Batch 2	Batch 3
1.	Draksha	Vitis vinifera	100g	100g	100g
2.	Haritaki Churna	Terminalia	100g	100g	100g
		chebula			
3.	Sita	-	200g	200g	200g
	Total Obtained		390g	394g	388g

Material: Stainless steel weighing vessel, balance, spoon, air tight container, etc.

Method of preparation:

- Raw drugs were procured from Sundar 1. Ayurved Pharmacy.
- Draksha was taken and it was soaked in 50 2. ml water for one night.
- 3. Next day *Draksha* were crushed.
- 4. Then sugar was added with soaked Draksha and was heated. As the kuttana

procedure for making this gutika is quite hectic, so we tried a new SOP by heating the mixture of Draksha and Sita.

- As the mixture started getting thicker 5. Haritaki churna was added eventually.
- It was stirred continuously till it became homogeneous mixture.
- After it became semisolid, Drakshadi gutika were made, of uniform sizes.

Table 2 Phy	ysico – chemical parameters of D	rakshadi Gutika	Gutika			
Sr. no.	Parameters	Batch 1 Values	Batch 2 Values	Batch 3 Values	Average	
1.	pH ³	4.92	5.21	4.83	4.98	
2.	Loss on drying	10.60%	10.25%	10.55%	10.46%	
3.	Total Ash Value	43.35%	43.18%	43.82%	43.45%	
4.	Acid Insoluble ash	0.03%	0.04%	0.07%	0.09%	
5.	Alcohol Soluble extractive	43.5% w/v	43.7% w/v	43.3% w/v	43.5% w/v	
6.	Water Soluble Extractive	69% w/v	67% w/v	70% w/v	68% w/v	
7.	Friability ⁴	0.45%	0.37%	0.56%	0.46%	
8.	Hardness	0.5	0.5	0.5	0.5	
9.	Disintegration Time	4.16min	5.20min	6.10min	5.15min	





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Fig. No. 1.1 Sita

Fig. No. 1.2 Draksha (wet)

Fig. No. 1.3 Haritaki Churna





Fig. No. 1.4 Heating the mixture (in process) Fig. No. 1.5 Drakshadi Gutika

Table 3 Phytochemical parameters of Drakshadi Gutika

Sr. no.	Parameters	Batch 1	Batch 2	Batch 3
1.	Starch	-	-	-
2.	Alkaloids	+	+	+
3.	Saponins ⁵	-	-	-
4.	Flavonoids	+	+	+
5.	Glycosides	+	+	+
6.	Tannins	+	+	+
7.	Steroids	+	+	+

DISCUSSION

Drakshadi Gutika is described in Yogaratnakara and recommended in our classics for the treatment of Amla-Pitta. Draksha is one of the ingredients having Madhura rasa, Madhura Vipaka, Sheeta Veerya and Mrudu Guna. Haritaki (Termenalia chebula) having Lavana Varjita Pancha rasa Kashaya pradhana, Madhura vipaka, Vikruta doshanulomana,

Aamapachana, and Sita having Madhura rasa, sheeta veerya, trupti karaka, indriya prasadaka. These properties fulfill the criteria to treat the Amlapitta with the karma of Pitta shamana and Pitta rechana. Here an attempt has been made to establish the standardize parameter of Drakshadi Gutika. For that analytical test like friability, hardness, disintegration time and all other analytical parameters as well as phytochemical





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screening of particular compound has been done. The average value of pH is 4.98, Loss on drying is 10.46%, Total Ash Value is 43.45%, Acid Insoluble ash is 0.09%, Alcohol Soluble extractive is 43.5% w/v, Water Soluble Extractive is 68% w/v, Friability is 0.46%, Hardness is 0.5 and Disintegration Time is 5.15min.

CONCLUSION

The three batches of *Drakshadi Gutika* were prepared on classical bases and evaluated all the possible parameters. The present study suggests that the *Drakshadi Gutika* can be used widely as a treatment of *Amlapitta*.





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