

**Research Article****Physico - chemical analysis of *Kanadya ghrut***Gangaprasad Asore<sup>1</sup>, Sachin Sheth<sup>2</sup>, Dattatraya S. Moharle<sup>3</sup>HOD and Associate Professor<sup>1</sup>, Assistant Professor<sup>2</sup>, P. G. Scholar<sup>3</sup>Department of Rasashastra and Bhaishajya Kalpana<sup>1,2,3</sup><sup>1,2,2</sup>APM's Ayurved Mahavidyalaya, Sion, Mumbai, Maharashtra, India-400022\* **Corresponding Author:** Dr. Dattatraya S. Moharle, **E-mail:** [dattamoharle@gmail.com](mailto:dattamoharle@gmail.com)

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**ABSTRACT:**

*Kanadya ghrut* was processed as per the process of *sneha kalpana* procedure described in a ayurvedic classical texts. With the help of *sneha kalpana* active principles of herbal drugs can be extracted and incorporated into *sneha* to achieve its maximum efficiency. *Kanadya ghrut* is a medicated *ghrut* mentioned in *Bharat bhaishjya ratankar* <sup>(1)</sup>. It is indicated for *Kshay* and *Rajyakshma* (Tuberculosis).

The aim of the present study is to prepared *Kanadya ghrut* and analysed it by using modern parameters to understand the changes that occurred during the preparation of *Kanadya ghrut*.

**KEY WORDS:** *Kanadya ghrut*, *Snehakalpana*, *Rajyakshma* Analysis**INTRODUCTION:**

*Ayurveda* is the oldest surviving complete medical system in the world. *Rasashastra* and *Bhaishjya Kalpana* is one of the important branch of *Ayurveda* that deals with the pharmaceutical processing, preparation of compounds medicine. In *Ayurveda ghrut* is commonly used for the management of many diseases due to its medical properties. *Kanadya ghrut* is prepared by *snehakalpana* method. *Kanadya ghrut* is specially used to treat *kshay* and *Rajyakshma* (Tuberculosis). It is prepared by taking equal quantity of *pippali*, *gudpani* (mixture of jaggery and water), and *go ghrut*. The chemical changes that occurred during the process of heating of *kalka dravy* and *ghrut* was observed in the present study. This would help us to determine the efficacy of *Kanadya ghrut* for the above cited therapeutic purpose.

**Aim and Objectives :****Aim :**Pharmaceutic- analytical study of *Kanadya ghrut*.**Objectives :**

1. Identification and authentication of raw materials
2. To prepare *Kanadya ghrut*
3. Analytical study of *Kanadya ghrut*.

**MATERIALS AND METHODS:**

All the required ingredients were identified and collected from local Ayurvedic shop and subject to the standardization based on the data provided in the *Ayurveda pharmacopoeia*

**Preparation of *Kanadya ghrut* :**

*Kanadya ghrut* was prepared according to the procedure mentioned in *Bharat bhaishjya ratankar*. The sample were prepared under the supervision of our unit head.

**Procedure:**1) *Pippali kalka* preparation-

Takes 200 gm *pippali chura* and add small quantity of water. Mixes it well. Keep adding water until it form in *kalk* shaped.

2) *Gudpani* preparation-

Takes 200 gm *guda* and add water slowly in it whenever *guda* totally dissolved in water. It should not be too diluted. It was filtered with the help of cleaned cotton.

3) *Go ghrut*, *gudpani*, and *pipali kalk* take 200 gm each in stainless steel. Then it was heated on *mandagni* (mild flame). Mixture should be stirred continuously

with spoon till the *snehsiddhi lakshan* of *ghrut* appeared.

*Sneha siddhi pariksha* is done to check whether it is prepared or not.

*Sneha siddhi pariksha* - Disappearance of foam in *ghrut*, ability of *kalka* to get rolled into wick, doesn't create cracking sounds when introduced in the fire, appearance of desired colour, smell etc<sup>(2)</sup>.

After obtaining the *snehsiddhi lakshan* the *Kanadya ghrut* was filtered with the help of cleaned cotton.

#### RESULTS:

*Goghrut* was taken 200ml and final product obtained was 160 ml.

Analytical test of *kanadya ghrut* was done and result are given below.

**Table No. 1: Showing the content of *Kanadya ghrut***

Sr. No.	Ingredients	Quantity
1	<i>Pippali</i> (Piper longum)	200 Gm
2	<i>Guda</i> (Jaggery)	200 Gm
3	<i>Ghrut</i> ( <i>Ghee</i> )	200 Gm

**Table No. 2: Showing the analysis of *Kanadya ghrut***

Test	Results
Appearance	Semisolid thick
Colour	Yellowish black
Odour	Characteristic
Taste	Strongly spicy & pungent
Specific gravity	1.010
Moisture	0.35 %
Saponification value	226
Iodine value	31
Unsaponifiable matter	1.38 %

#### DISCUSSION:

*Snehakalpna* is commonly used to prepared different medicine. It extracts active principles from raw materials. *Snehakalpna* is important *kalpna* mentioned in the *Sharangdhar samhita*. *Ghrut, taila, vasa, majja*, are *sneha dravya* but among these *ghrut* is excellent because it incorporates as well as it has power of assimilation when other substance added to it<sup>(3)</sup>. Also, it retains its own quality. While *snehapak vidhi* it should be subjected to *mandagi* (mild flame) and stirring continuously is necessary to avoid sticking of *kalka* to bottom. During preparation of *ghrut* it is necessary to check *siddhi lakshan*. In *kanadya ghrut, pipali, gudpani, go ghrut* are constituents. *Pippalli* has *guna - laghu, snigdha, teekshna. Rasa - katu, Vipak - Madhur, Virya - anushnasheeta*<sup>(4)</sup>. Due to phyto constituents of *go ghrut, pipalli* and *guda*, *Kanadya ghrut* cure *Kshay and Rajayakshma*.

#### CONCLUSION:

Details description of *kanadya ghrut* along with its constituents, characteristics of ingredients, preparation, *snehsiddhi lakshan* and uses of *ghrut* explained. By *snehakalpna* procedure, allow the phyto constituents present in the ingredients to be transferred to the final product. *Kanadya ghrut* is used to treat *Kshay, Rajayakshma* by its phyto constituents.

Analytical parameters show it is safe for internally uses.

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