



PHARMACEUTICAL EVALUATION OF GOKSHURADI PANCHANG

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ABSTRACT

Gokshuradi Panchanga is an Ayurvedic herbal formulation composed of the whole plant (Panchanga) of Gokshura along with supportive herbs. It is widely used in Mutravaha Srotas disorders, especially in conditions like Mutraghata and benign prostatic hyperplasia (BPH). This review highlights its classical references, pharmacological properties, phytochemistry, and therapeutic applications.

INTRODUCTION

Ayurveda emphasizes the use of whole plant parts (Panchanga) for maximum therapeutic efficacy. Gokshuradi Panchanga is a classical herbal combination mainly indicated in urinary disorders. It acts as a **Mutrala (diuretic)**, **Shothahara (anti-inflammatory)** and **Vata-Pittahara** drug.

Raw Drug (Gokshura Panchanga) Raw Drug (Gokshura Panchanga – Collected Sample)



Gokshura plant



Gokshura fruits



Gokshura (flowers, leaves, & stems)



Gokshura roots

Pharmaceutical Preparation (Manual Work Documentation)

Method of Preparation (As Per Practical Work)

1. Collection of raw drugs (Gokshura Panchanga)
2. Cleaning to remove dust and impurities
3. Shade drying to preserve active constituents
4. Grinding using pulveriser machine (shown in images)
5. Sieving for uniform particle size
6. Weighing and packing in polythene bags
7. Labelling and storage



Botanical Profile

- **Botanical Name:** *Tribulus terrestris* Linn.
- **Common Name:** Gokshua
- **Family:** Zygophyllaceae
- **Part Used:** Panchanga (Root, Stem, Leaf, Flower & Fruit)

Classical References Mentioned in

- ❖ **Charaka Samhita** (Mutravirechaniya Mahakashaya)
- ❖ **Sushruta Samhita** - indicated in Mutraghat.
- ❖ **Bhavaprakasha Nighantu** - Mutrala and Ashmarighna properties.

Pharmacological Properties (Ayurvedic)

- **Rasa (Taste):** Madhura, Tikta
- **Guna (Properties):** Guru, Snigdha
- **Virya (Potency):** Sheeta
- **Vipaka:** Madhura
- **Karma: (Action)**
 - Mutrala (Diuretic)
 - Shothahara (Anti-inflammatory)
 - Ashmarighna (Anti-urolithic)
 - Balya (strength Promoting)

Method of Preparation (Kwatha)

Step-wise Procedure

1. Collection of raw Gokshura Panchanga (Photo 1,2)
2. Cleaning and drying under shade (Photo 3&4)
3. Pulverization using grinder (as seen in my images) (Photo 5)
4. Sieving for uniform particle size
5. Packing in airtight containers

Actual Sample Used in Study (my Collected Drug)

Collection of raw materials (Gokshura Panchang) by me



(Photo 1&2)

PROCESS OF DRYING UNDER SUN LIGHT FOR THE REMOVAL OF MOISTURE FOR MEDICINE PREPARATION (KWATH CHURAN)



(Photo 3)



(Photo 4)

Pulverization using grinder (as seen in my images)



(Photo 5)

MEDICINE PACKING IN PHARMACY GOPABANHDU AYURVEDA MAHAVIDYALAYA PURI



(Photo 6)



Phytochemistry

- Saponins (Protodeacon)
- Flavonoids
- Alkaloids
- Glycosides
- Steroidal compounds

Pharmacological Actions (Modern View)

- Diuretic effect (increases urine output)
- Anti-inflammatory action
- Anti-urolithic activity (prevents stone formation)
- Prostate protective (useful in BPH)
- Antioxidant activity

Therapeutic Uses

- Mutraghata (Urinary Retention)
- Mutrakrichra (Dysuria)
- Ashmari (Urolithiasis)
- Benign Prostatic Hyperplasia (BPH)
- Urinary tract infection(UTI)

Dose & Administration

- **Churan:** 3-6 gm twice daily with warm water
- **Kwath:**40-50 ml decoction

Safety &Precaution

- Generally safe in prescribe dose
- Use cautiously in Pregnancy
- Long -term use under medical supervision

DISCUSSION

Gokshuradi Panchanga works primarily on Mutravaha Srotas by alleviating Vata and Pitta dosha. Its diuretic and anti-inflammatory properties help in reducing urinary obstruction and prostate enlargement symptoms. Modern research also supports its role in improving urinary flow and reducing residual urine.

CONCLUSION

Gokshuradi Panchanga is a potent Ayurvedic formulation with significant therapeutic value in urinary disorders, especially BPH. Its classical relevance combined with modern pharmacological evidence makes it an effective and safe herbal remedy.

REFERENCES

1. *Charaka Samhita*
2. *Sushruta Samhita*
3. *Bhavaprakasha Nighantu*
4. *API (Ayurvedic Pharmacopoeia of India)*

Analytical study

- In this study the Physicochemical character's had been evaluated out in College of Pharmaceutical Science's, Puri Odisha.
- All the Parameters were adopted for Quality Assessment for trial drug as per under the supervision as per CCRAS criteria(Approved by P.C.I., Affiliated to B.P.U.T/OUHS & Recognised by govt.of Odisha.

EVALUATION

It can be done on following parameter

1. Organoleptic characters
2. Physio chemical Analysis Parameters

**1- MICROSCOPIC**

Sl.No.	Organoleptic	
1.	State	Dry
2.	Colour	Light green
3.	Odour	Characteristic
4.	Texture	Hairy and Rough
5.	Teste	Sweet

2- PHYSIO-CHEMICAL ANALYSIS

Sl.No.	Tests	
1.	Specific gravity with a formulation with density close to water	0.915 at NTP
2.	PH	5.78
3.	Totally ash(%)	15 %
4.	Acid insoluble ash(%)	1.82 %
5.	Water soluble extract	22.78 %
6.	Alcohol Soluble extract	8.5 %
7.	Loss on drying	5.51 %
8.	Refractive index	1.475
9.	Acid value	4.5
10.	Iodine value	97.28
11.	Bulk density	0.45g/ml
12.	Sodium content (Na)	Nil
13.	Heavy metal (As,Cd,Pb,Hg)	Not Detected
14.	Pathogens-E coli salmonella spp. Pseudomonas aeruginosa S. aureus	Absent
15.	Sheaf life	24 Months

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Date: 28/04/2026

Ref: 519/CPS/DPH/04-25

This is to certify that Dr. Virendra Singh Kushwaha, M.D. (Ay.) Scholar, P.G. Department of Kaya Chikitsa, Gopabandhu Ayurveda Mahavidyalaya, Puri has done his analytical study on the drug "GOKSHURA PANCHANGA" at College of Pharmaceutical Sciences, Puri under our supervision as per CCRAS criteria.

STUDY REPORT

Name of the PG Scholar	DR. VIRENDRA SINGH KUSHWAHA P.G. Dept. Of Kaya Chikitsa GOPABANDHU AYURVEDA MAHAVIDYALAYA, PURI
Name of the sample	GOKSHURA PANCHANGA
Sample quantity	60 gms.

1. MACROSCOPIC

Sl. No.	Organoleptic	
1	State	Dry
2	Colour	Light green
3	Odour	Characteristic
4	Texture	Hairy & rough
5	Taste	Sweet

2. PHYSIO-CHEMICAL ANALYSIS

Sl. No.	Tests	
1	Specific gravity with a formulation with density close to water.	0.915 at NTP
2	pH	5.78
3	Total ash (%)	15%
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10	Iodine value	97.28
11	Bulk density	0.45g/ml
12	Sodium content (Na)	Nil
13	Heavy metals (As, Cd, Pb, Hg)	Not detected
14	Pathogens - E.coli Salmonella spp. Pseudomonas aeruginosa S.aureus	Absent
15	Shelf life	24 months

28/04/26
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