

## FORMULATION AND STANDERDIZATION OF AMRITSARPI AGAD

W.R.T. AGADTANTRA

Dr. Sachin Dore\*

India.

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\*Corresponding Author

Dr. Sachin Dore

India.

## INTRODUCTION

अपामर्गस्यबीजानीशिरीषस्यचमषकान्।

श्वेतेद्वेकाकमाचिंचगवांमूत्रेणपेषयेत्॥

सर्पिरेतस्तूसंसिध्दंविषसंशमनंपरंम्।

अमृतंनामंविख्यातमपिसज्जिवयेन्मृतम्॥

-- सु.क्.६/१२-१३

*Amritasarpi agad* is already mentioned in *Sushruta Samhita* for the treatment of toxic effects on body. It is considered as one of the best antidotes for poisoning. In Ayurveda *Ghruta* is consider as to be the

best *Sneha* dravya. It has properties like *sanskaaruanuvartan* means *ghrita* does not leave its original properties but it increases its properties when combined with other *Dravyas*. Though *ghrita* alleviate *pitta* and *vata*, it improves *rasa*, *shukra* and *oja*. It increases softness in body, suppresses burning sensation, induces good voice and appearance. Its use increases physical body strength. The three *budhi gunas*, *Dhi* (Patience), *Dhruti* (Firmness) and *Smruti* (Memory) are increased by *Ghruta*. It is considered best in increasing *Agni*. Because of these qualities it is used best in patients with excessive dryness, malnourished, poison consumption, suffering from *vata* and *pitta* disease, low intellectual and low memory power. Along with one suffering from burning sensation, weapon or poison, hysteric patient, epilepsy, pain, fever and in many other diseases *Ghruta* is proved to be very useful.

**MATERIAL AND METHODS****SNEHA-PAKA KALPANA****PREPARATION OF AMRITSARPI AGAD****INGREDIENTS**

Sr.No.	Dravya	Latine name	Family	Part Used	Quantity
I.	Apamarga	Achyranthes aspera, Linn.	Amaranthaceae	Seeds	50 gm (1 part)
II.	Shirish	Albizia lebbeck (Linn.) Benth.	Mimosaceae	Seeds	50 gm (1 part)
III.	Shweta Aparajita	Clitorea ternatea, Linn.	Fabaceae	Seeds, Roots, Leaves	50 gm (1 part)
IV.	Neel Aparajita	Clitorea ternatea, Linn.	Fabaceae	Seeds, Roots, Leaves	50 gm (1 part)
V.	Makoy (Kaakamachi)	Solanum Nigrum Linn	Solanaceae	Leaves, fruits	50 gm (1 part)
VI.	Gomutra				Qs
VII.	Ghruta				1 liter (4 parts)

**REQUIREMENTS**

Stainless steel vessels (capacity 20 liters), stainless steel stirrer, stainless steel measuring scale, measuring cylinder, clean cotton cloth, digital weighing machine and electronic mixer grinder.

Heating source: Gas stove

Temperature: Mandagni (60-80°C)

**Procedure**

Step 1: 50 gms of each drug-1 part (Apamarga, Shirish, Kakamachi, Shweta and Neela Aparajita) were taken in a clean wide mouthed stainless-steel vessel. Total of 250 gms of the herbs.

Step 2: The above drugs were grinded into fine coarse powder in an electronic mixer grinder.

Step 3: Gomutra was added in the above powder to make kalka of the polyherbs.

Step 4: Fresh goghruta (sneha)-4 parts, i.e 1-liter goghruta was taken in another big clean wide mouthed stainless-steel vessel.

Step 5: The vessel was placed over mild fire and when the fumes started appearing in goghruta, the kalka was added carefully to it.


Step 6: Water-16 parts, i.e. 16 liters was added to the vessel and boiled with frequent stirring until sneha-siddhi lakshana appeared in it.

Step 7: Later it was filtered through a clean cloth and preserved in a wide mouthed glass container.

## Raw Drug Standardisation

### 1. Apamarg seeds

#### ANALYTICAL REPORT: APAMARG SEED ( Achyranthes aspera)

TEST	SPECIFICATIONS	RESULT
APPEARANCE	Dry seed	Dry seed
COLOUR	Greenish brown	Greenish Brown
ODOUR	Characteristic	Characteristic
TASTE	Bitter	Bitter
FOREIGN MATTER	NMT 2 %	NIL
MOISTURE CONTENT	NMT 5 %	4.0 %
ASH	NMT 12 %	5.80 %
A I A	NMT 3 %	1.20 %
A S E	NLT 5 %	8.94 %
W S E	NLT 11 %	14.20 %
MACROSCOPY		
		

The sample complies with the standards As per standard specification.

### 2. Goghrita

#### ANALYTICAL REPORT: GOGHRITA (GHEE )

TEST	SPECIFICATIONS	RESULT
APPEARANCE	Oily or Semisolid Liquid	SEMISOLID THICK
COLOUR	White to Light Yellow	LIGHT YELLOW
ODOUR	Rich and Characteristic	CHARACTERISTIC PLEASANT
TASTE	Pleasant	PLEASANT
SPECIFIC GRAVITY	1.01995 at 25°	1.0191
Reichert MeisselVALUE	24 - 28	25
MOISTURE	NMT 0.5 %	0.20 %
SAPONIFICATION VALUE	NMT 225	212
IODINE VALUE	NMT 35	31
UNSATURATED MATTER	NMT 1.5 %	1.24 %


The sample complies with the standards as per Ayurvedic pharmacopoeia Part I Volume VI page no. 204

### 3. Shirish

#### **ANALYTICAL REPORT: SHIRISH SEED ( Albizzia lebbbeck)**

TEST	SPECIFICATIONS	RESULT
APPEARANCE	Dry seed	Dry seed
COLOUR	Pale Brown	Pale Brown
ODOUR	Characteristic	Characteristic
TASTE	Oily	Oily
MOISTURE CONTENT	NMT 5 %	3.8 %
ASH	NMT 10 %	7.06 %
A I A	NMT 1 %	0.36 %
A S E	NLT 4 %	5.63 %
W S E	NLT 6 %	7.64 %
OIL	NLT 4 %	5.3 %

MACROSCOPY		
		


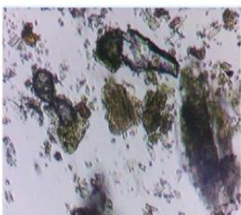
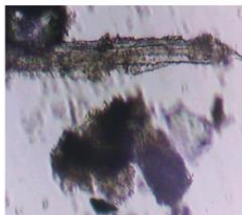
The sample complies with the standards As per standard specification.

### 4. Aparajita

#### **ANALYTICAL REPORT: APARAJITA (Clitoria ternatea)**

TEST	SPECIFICATIONS	RESULT
APPEARANCE	Fine Powder	Fine Powder
COLOUR	Light green	Light green
ODOUR	Characteristic	Characteristic
TASTE	Bitter	Bitter
MOISTURE CONTENT	NMT 5 %	3.8 %
ASH	NMT 5 %	3.0 %
A I A	NMT 2 %	0.721%
A S E	NLT 5 %	7.24 %
W S E	NLT 8 %	12.0%

MICROSCOPY		
Fiber	Chlorenchyma and Ca Oxalate Crystal	Fiber
		


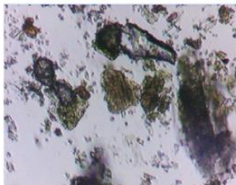
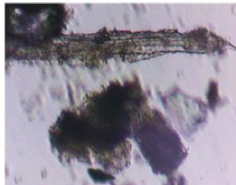
The sample complies with the standards as per Ayurvedic pharmacopoeia Part I Volume II page 10.

## 5. Neel Aparajita

### ANALYTICAL REPORT: APARAJITA (Clitoria ternatea)

TEST	SPECIFICATIONS	RESULT
APPEARANCE	Fine Powder	Fine Powder
COLOUR	Light green	Light green
ODOUR	Characteristic	Characteristic
TASTE	Bitter	Bitter
MOISTURE CONTENT	NMT 5 %	4.1 %
ASH	NMT 5 %	3.80 %
A I A	NMT 2 %	0.74 %
A S E	NLT 5 %	7.24 %
W S E	NLT 8 %	10.18 %

MICROSCOPY		
Fiber	Chlorenchyma and Ca Oxalate Crystal	Fiber
		

The sample complies with the standards as per Ayurvedic pharmacopoeia Part I Volume II page 10.

## Final Product – Amritsarpi agad Standerdisation

### ANALYTICAL REPORT: AMRITSARPI GHRUTA

TEST	RESULT
APPEARANCE	SEMISOLID
COLOUR	LIGHT BROWN
ODOUR	CHARACTERISTIC
TASTE	PLEASANT
SPECIFIC GRAVITY	1.0198
MOISTURE	0.28 %
SAPONIFICATION VALUE	212
IODINE VALUE	30
UNSAPONIFIABLE MATTER	1.22 %

### MACROSCOPY



ALARSIN