

## SWAMALA COMPOUND SF

Monograph No. – 070381 ver 3.0

Issue No: 03

Date of Issue: 03/10/2024

Text Reference : Ayurvedic Proprietary Medicine

Amendment No : 00

Amendment Date : --

Shelf Life: 3 years

### Description

Brown to Chocolate brown semi-solid mass with sour and astringent taste.

### Loss on Drying at 105°

Not more than 50 % w/w

### Ash

Not more than 2 % w/w

### Acid Insoluble Ash

Not more than 1 % w/w

### Water soluble Extractive

Not less than 25 % w/w

### Alcohol soluble Extractive

Not less than 25 % w/w

### pH (1% aqueous solution)

3.0 – 5.0



### Elemental Assay

#### Gold (Au)

Not less than 0.76 mg/10 g

#### Silver (Ag)

Not less than 0.50 mg/10 g

#### Iron (Fe)

Not less than 3.00 mg/10 g

#### Calcium (Ca)

Not less than 4.00 mg/10 g

#### Mercury (Hg)

Not less than 8.40 mg/10 g

### Thin Layer Chromatography

#### Solvent system

Chloroform : Ethyl acetate : Formic acid  
( 5 : 4 : 1.6 )

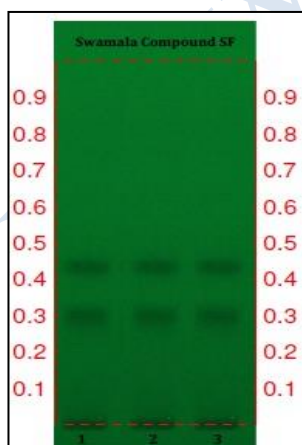
#### Details

Solvent of Extraction – Methanol

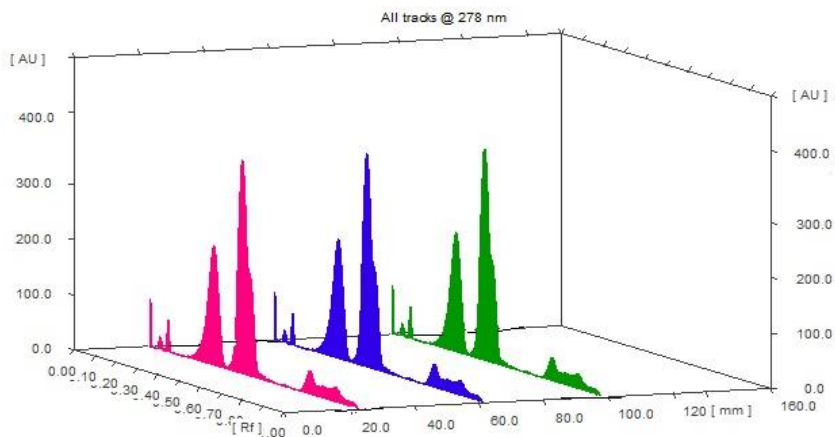
Solvent front – 90 mm

Total No. of Major spots – 2

Detection – Under UV at 254 nm



Major Spots	Colour	Approx. Rf.
1	Gray	0.30
2	Gray	0.45

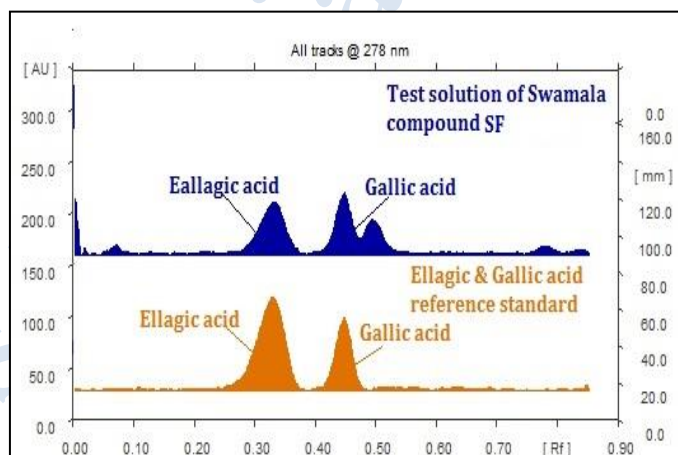
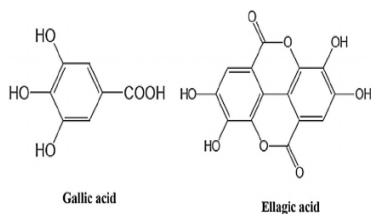


**3D Peak Display of Swamala compound SF at 278 nm**

## HPTLC Profile <sup>†</sup>

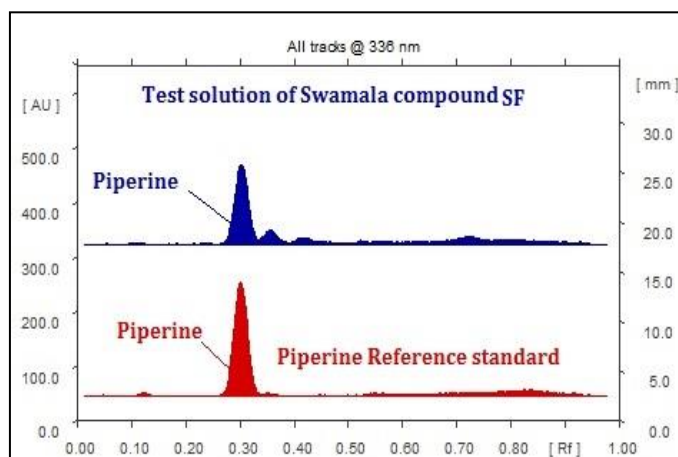
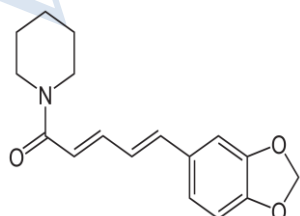
### i) Total Polyphenols (as Gallic acid & Ellagic acid)

When examined in the range of 200 nm to 400 nm, the test solution shows absorption maxima at about 290 nm for Gallic acid & 278 nm for Ellagic acid corresponding with Gallic acid & Ellagic acid standard.



### ii) Piperine

When examined in the range of 200 nm to 400 nm, the test solution shows absorption maxima at about 336 nm corresponding with piperine standard.



<b><i>E. coli</i></b>	Absent/g
<b><i>P. aeruginosa</i></b>	Absent/g
<b><i>Salmonella sp.</i></b>	Absent/g
<b><i>Staphylococcus sp.</i></b>	Absent/g
<b>Total Microbial plate count (TPC)</b>	NMT 10 <sup>5</sup> c.f.u./g
<b>Total Yeast &amp; Mould count (TYMC)</b>	NMT 10 <sup>3</sup> c.f.u./g
<b>Pesticide Residue <sup>†</sup> (OC+OP)</b>	Complies as per API
<b>Aflatoxins B1,B2,G1,G2 <sup>†</sup></b>	Complies as per API