

SWAMALA COMPOUND

Monograph No. – 070009 ver 3.1

Issue No: 03

Date of Issue: 18/11/2023

Text Reference : Ayurvedic Proprietary Medicine

Amendment No : 00

Amendment Date : --

Shelf Life: 3 years

Description

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

Loss on Drying at 105°

Not more than 14 % w/w

Ash content

Not more than 1 % w/w

Acid Insoluble Ash

Not more than 0.2 % w/w

pH (1% aqueous solution)

3 - 4

Elemental Assay

Gold (Au)

Not less than 0.2 mg/10 gm

Silver (Ag)

Not less than 0.5 mg/10 gm

Iron (Fe)

Not less than 5.0 mg/10 gm

Calcium (Ca)

Not less than 4.0 mg/10 gm



Thin Layer Chromatography Solvent system

Toluene : Ethyl acetate : Formic acid : Ethanol
(6 : 4 : 0.3 : 0.4)

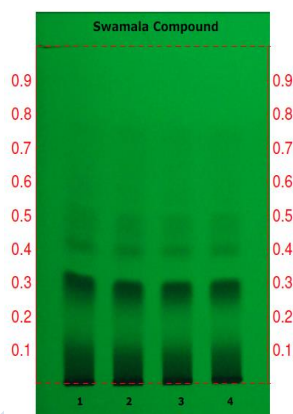
Details

Solvent of Extraction – Methanol

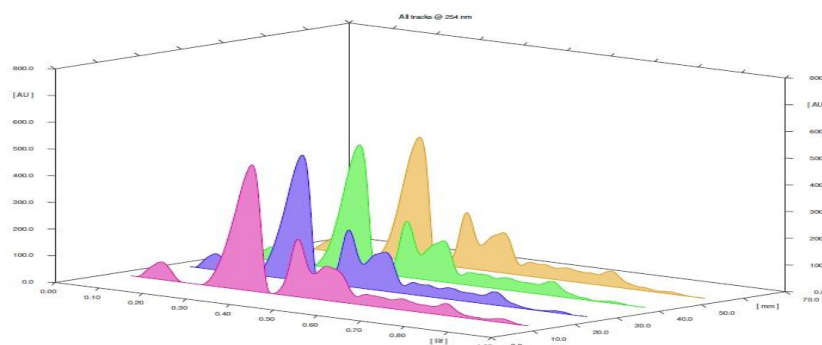
Solvent front – 90 mm

Total No. of Major spots – 4

Detection – Under UV at 254 nm



Major Spots	Colour	Approx. Rf.
1	Black	0.30
2	Gray	0.41
3	Light Gray	0.49
4	Light Gray	0.74



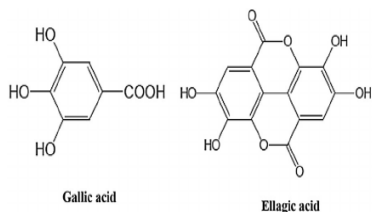
3D Peak Display of Swamala compound at 254 nm

Confidential - photocopy prohibited

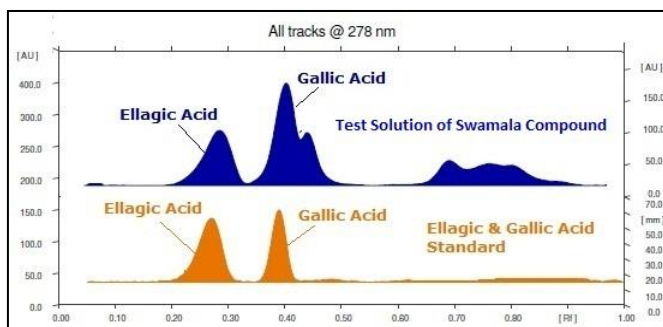
Note : † : These extra tests can be performed on every batch at extra cost. Tests can be ascertained on request.

HPTLC Profile +

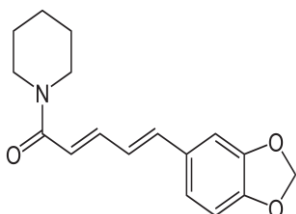
i) Total Polyphenols (as Gallic acid & Ellagic acid)



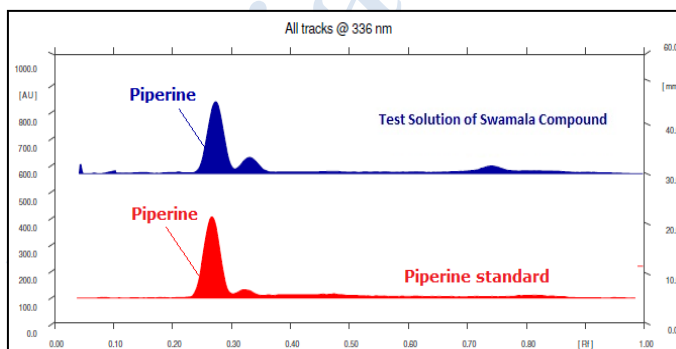
When examined in the range of 200 nm to 400 nm, the test solution shows absorption maxima at about 290 nm for Gallic acid & 278 nm for Ellagic acid corresponding with Gallic acid & Ellagic acid standard.



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.



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