SWAMALA COMPOUND

Monograph No. – 070009 *ver 3.2*

Issue No: 03
Date of Issue: 04/10/2024
Text Reference : Ayurvedic Proprietary Medicine

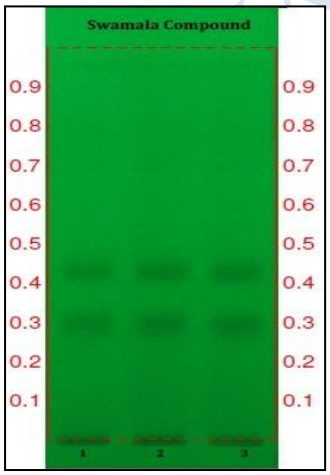
Amendment No : 00
Amendment Date : --
Shelf Life: 3 years

Description	Brown to Chocolate brown semi-solid mass with sweet and slightly sour taste.
Loss on Drying at 105^0	Not more than 14 % w/w
Ash	Not more than 1 % w/w
Acid Insoluble Ash	Not more than 0.2 % w/w
Water soluble Extractive	Not less than 50 % w/w
Alcohol soluble Extractive	Not less than 50 % 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)

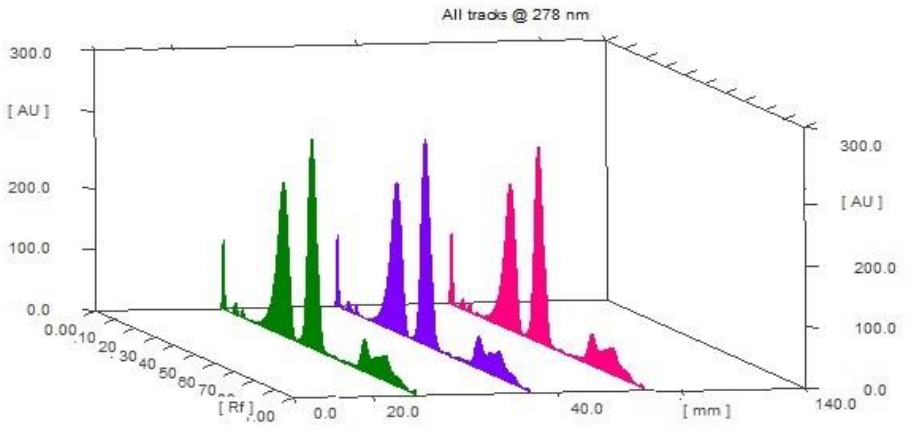
Details



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	0.43

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

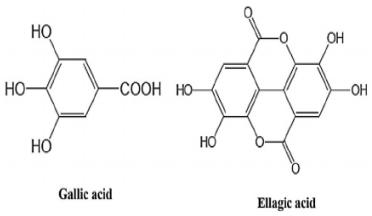


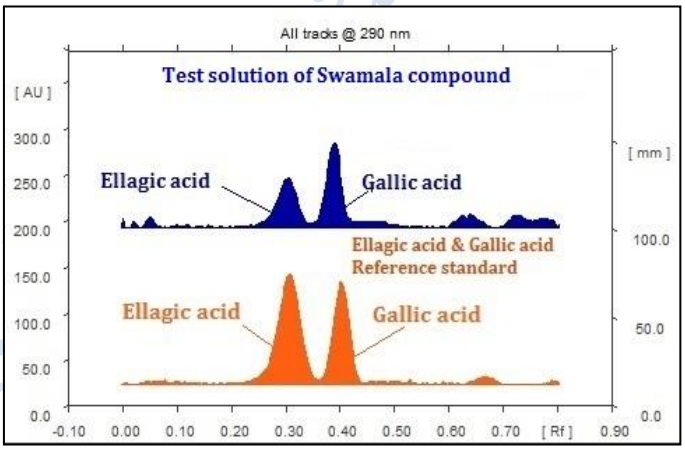
3D Peak Display of Swamala Compound at 278 nm

HPTLC Profile †

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

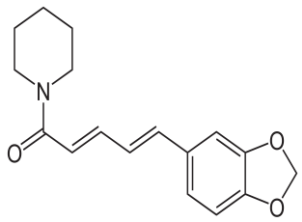
When examined in the range of 200 nm to 400 nm, the test solution shows absorption maxima at about 290 nm for Gallic acid & 278 nm for Ellagic acid corresponding with Gallic acid & Ellagic acid standard.

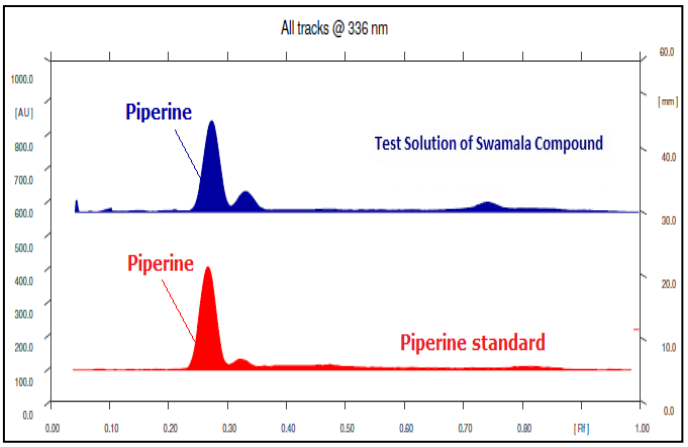




ii) Piperine

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.





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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

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