

Shree Dhootapapeshwar Standards

MUSALI PAK

Monograph No. - 010035 ver 3.0

Issue No: 03 Amendment No: 00

Date of Issue: 01/12/2022 Amendment Date: -Text Reference: Ayurveda Sara Sanghraha (Avaleha-Pak) Shelf Life: 3 years

DescriptionLight brown to dark brown colour granules with

characteristic odour and taste.

Loss on Drying at 105° Not more than 10.0 % w/w

Ash Not more than 5.0 % w/w

Acid Insoluble Ash Not more than 3.0 % w/w

Water Soluble Extractive Not less than 50.0 % w/w

Alcohol Soluble Extractive Not less than 18.0 % w/w

pH (1% aqueous solution) 5.0 – 7.0

Bulk Density 0.5 – 1.0

Elemental Assay

Sulphur (S) Not less than 0.06 % w/w

Mercury (Hg) Not less than 0.24 % w/w

Tin (Sn) Not less than 0.08 % w/w

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 - 6

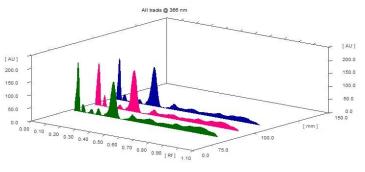
Detection - Under UV at 366nm After spray with NP reagent

Musali Pak

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Major Spots	Colour	Approx. Rf.
1	Light blue	0.09
2	Light blue	0.14
3	Light blue	0.19
4	Sky blue	0.29
5	Blue	0.40
6	Gray	0.54



3D Peak Display of Musali Pak at 366 nm

Confidential - photocopy prohibited

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

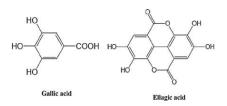


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HPTLC Profile †

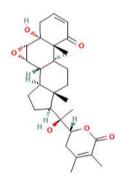
i) Total Polyphenols (as Gallic acid & Ellagic acid)

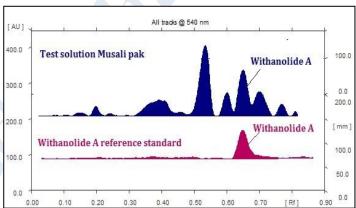
When examined in the range of 200 nm to 400 nm, the test solution shows absorption maxima at about 290 nm for Gallic acid & 278 nm for Ellagic acid corresponding with Gallic acid & Ellagic acid standard.



ii) Withanolide A

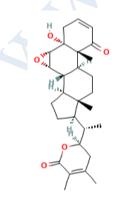
When examined in the range of 400 nm to 700 nm, the test solution shows absorption maxima at about 540 nm corresponding with Withanolide A standard.

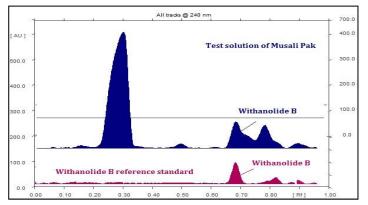




iii) Withanolide B

When examined in the range of 200 nm to 400 nm, the test solution shows absorption maxima at about 240 nm corresponding with Withanolide B standard.



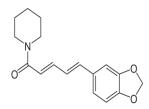


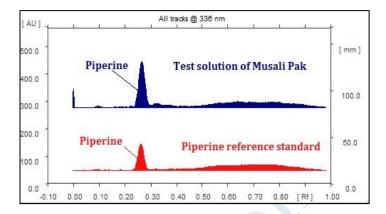


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iv) Piperine

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 10⁵ c.f.u./g

Total Yeast & Mold count (TYMC) NMT 10³ c.f.u./g

Pesticide Residue + (OC+OP) Complies as per API

Aflatoxins B1,B2,G1,G2 + Complies as per API