

Shree Dhootapapeshwar Standards

TAPYADI LOHA (WITH RAJATA)

Monograph No. - 050011 ver 3.0

Issue No: 03 Amendment No: 01

Amendment Date: 08/04/2023 Date of Issue: 30/11/2017

Shelf Life: 10 years Text Reference: Bharat Bhaishajya Ratnakar 2/2562

Description Dark gray to black colour powder, odour characteristic,

taste slight bitter.

Loss on Drying at 105° Not more than 5 % w/w

Ash Not more than 55 % w/w

Acid Insoluble Ash Not more than 41 % w/w

Water soluble extractive Not less than 27 % w/w

Alcohol soluble extractive Not less than 7.5 % w/w

4.0 - 5.5**Bulk Density** 0.7 - 1.3

Elemental Assay

Iron (Fe) 8.0 - 14.0 % w/w

Silver (Ag) 8.0 - 12.0 % w/w

Copper (Cu) NLT 1.0 % w/w

Thin Layer Chromatography

Solvent system

Tolune : Ethyl acetate (7

Details Solvent of Extraction - Methanol

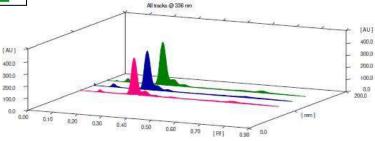
Solvent front - 90 mm

Total No. of Major spots - 6

Detection - Under UV at 254 nm.

Тару	adi Loha
0.9	0.9
0.8	0.8
0.7	0.7
0.6	0.6
0.5	0.5
0.4	0.4
0.3	0.3
0.2	0.2
0.1	0.1
-	7 7

Major Spots	Colour	Approx. Rf.
1	Black	0.08
2	Light gray	0.15
3	Black	0.23
4	Light gray	0.29
5	Light gray	0.39
6	Light gray	0.45



3D Peak Display of Tapyadi Loha 336 at nm

Confidential - photocopy prohibited

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

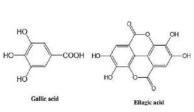


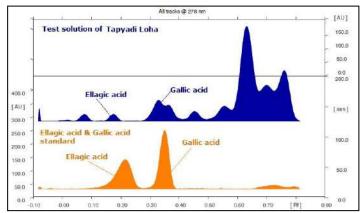


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HPTLC Profile⁺

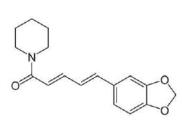
 i) Total Polyphenols (as Gallic acid & Ellagic acid) When examined in the range of 200 nm to 400 nm, the test solution shows absorption maxima at about 290 nm for Gallic acid & 278 nm for Ellagic acid corresponding with Gallic acid & Ellagic acid standard.

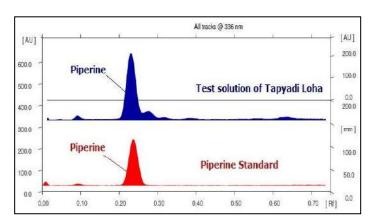




ii) Piperine

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 NMT 10⁵ c.f.u./g

(TPC)

Total Yeast & Mould count NMT 10³ c.f.u./g

(TYMC)

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

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