

TRIPHALA GUGGUL

Monograph No. – 0400034 ver 3.0

Issue No: 03

Amendment No : 03

Date of Issue: 28/10/2016

Amendment Date : 02/05/2022

Text Reference : Sharangdhar Samhita Madhyam Khanda 7/82-83

Shelf Life: 5 years

Description

Brown to blackish brown colour, round biconvex coated tablet having SDL mark on one side.

Loss on Drying at 105°

Not more than 6 % w/w

Friability

Not more than 1 % w/w

Disintegration Time

Not more than 60 min.

Hardness

Not less than 1.5 kg/cm²

Thickness

5.0 ± 0.5 mm

Diameter

8.0 ± 0.5 mm

Average Weight

300 mg ± 5%

Uniformity of weight

Not more than 2 tablets deviate by more than 5% of the average weight and none by more than 10 % of average weight

Ash

Not more than 25 % w/w

Acid insoluble ash

Not more than 15 % w/w

Water soluble extractive

Not less than 28 % w/w

Alcohol soluble extractive

Not less than 15 % w/w

pH (1% Aq. solution)

5.0 – 6.0

Thin Layer Chromatography Solvent system

Toluene : Acetone
(9.0 : 1.0)

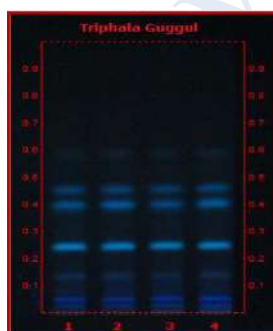
Details

Solvent of Extraction – Methanol

Solvent front – 90 mm

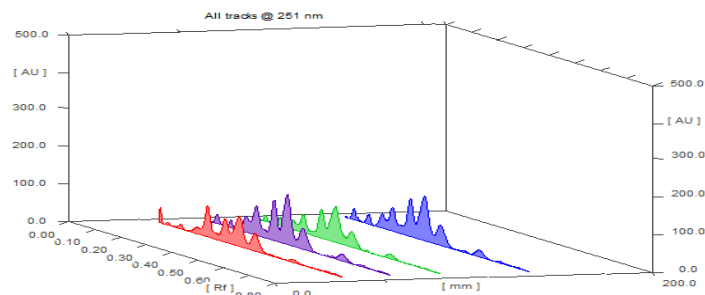
Total No. of Major spots – 7

Detection – Under UV at 366 nm



Major Spots	Colour	Approx. Rf.
1	Blue	0.03
2	Blue	0.05
3	Light Blue	0.13
4	Fluorescent Blue	0.24
5	Fluorescent Blue	0.40
6	Fluorescent Blue	0.45
7	Light Blue	0.59

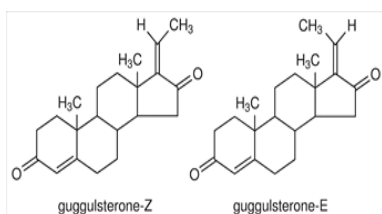




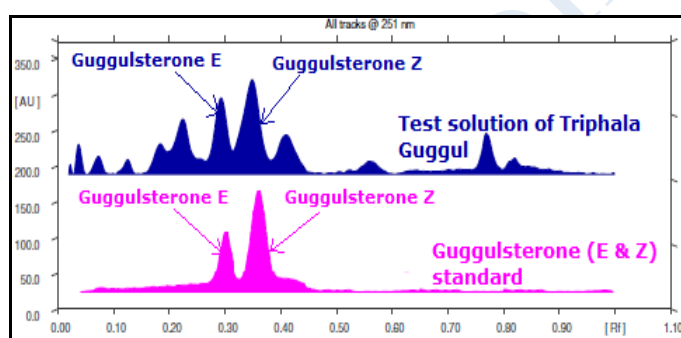
3D Peak Display of Triphala Guggul at 251 nm

HPTLC Profile[†]

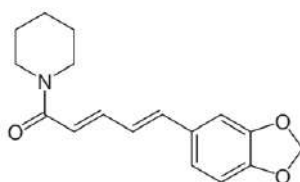
i) Guggulsterone (E & Z)



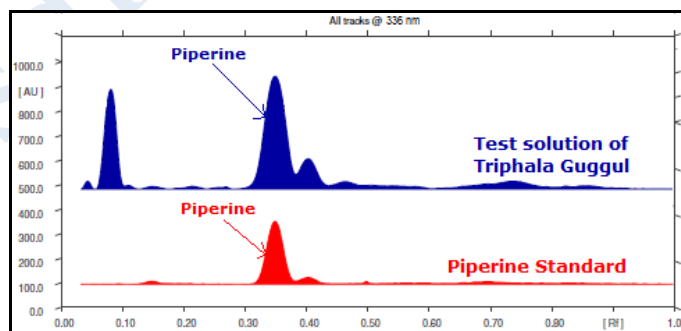
When examined in the range of 200 nm to 400 nm, the test solution shows absorption maxima at about 251 nm corresponding with Guggulsterone (E & Z) standard.



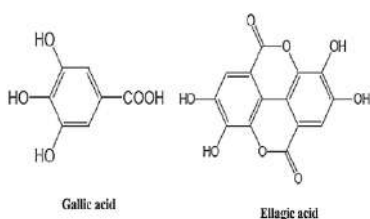
ii) Piperine



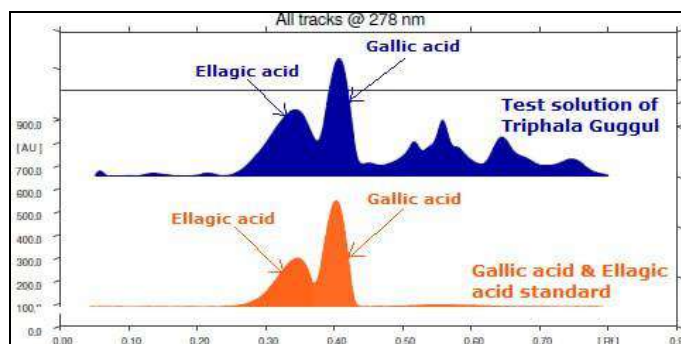
When examined in the range of 200 nm to 400 nm, the test solution shows absorption maxima at about 336 nm corresponding with Piperine standard.



iii) 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.



Heavy metal

Lead (Pb)	NMT 10 ppm
Mercury (Hg)	NMT 1 ppm
Arsenic (As)	NMT 3 ppm
Cadmium (Cd)	NMT 0.3 ppm
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