TRIPHALA GUGGUL

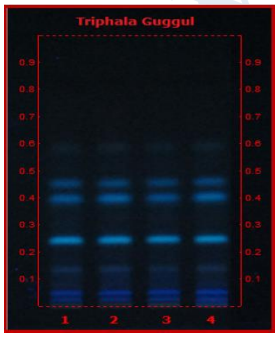
Monograph No. – 0400034 *ver 3.0*

Issue No: 03
Date of Issue: 28/10/2016
Text Reference : Sharangdhar Samhita Madhyam Khanda 7/82-83

Amendment No : 04
Amendment Date : 19/07/2024
Shelf Life: 5 years

Description	Brown to blackish brown colour, round biconvex coated tablet having SDL mark on one side.
Loss on Drying at 105^0	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/cm^2
Thickness	5.0 $\pm$ 0.5 mm
Diameter	8.0 $\pm$ 0.5 mm
Average Weight	300 mg $\pm$ 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

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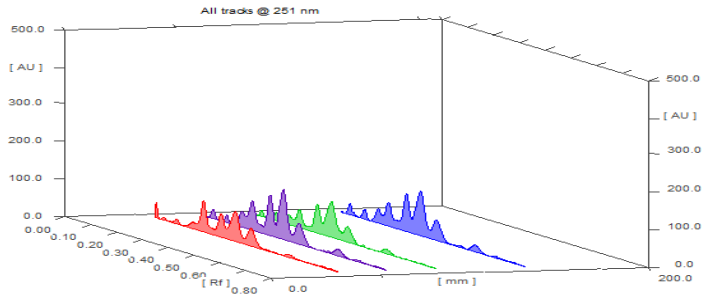
Note : † : These extra tests can be performed on every batch at extra cost. Tests can be ascertained on request.

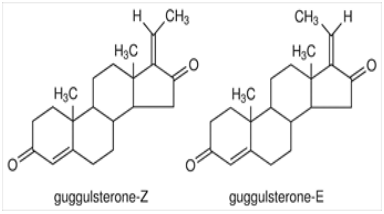


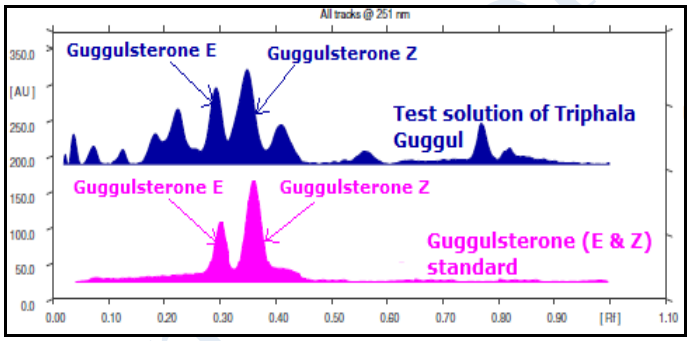
3D Peak Display of Triphala Guggul at 251 nm

HPTLC Profile†

i) Guggulsterone (E & Z)

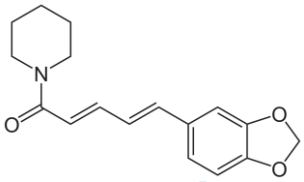
When examined in the range of 200 nm to 400 nm, the test solution shows absorption maxima at about 251 nm corresponding with Guggulsterone (E & Z) standard.

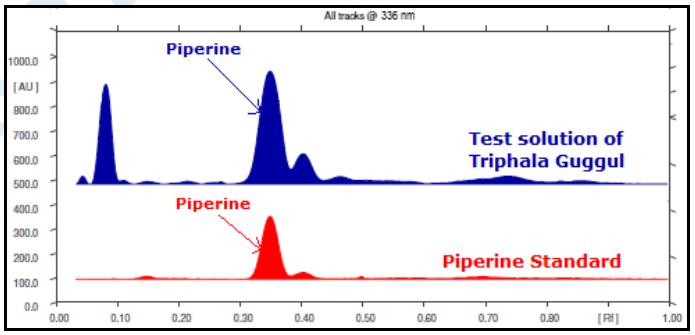




ii) Piperine

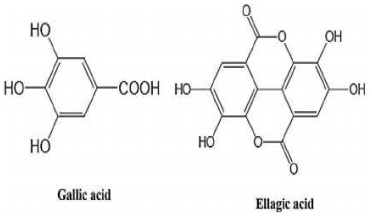
When examined in the range of 200 nm to 400 nm, the test solution shows absorption maxima at about 336 nm corresponding with Piperine standard.

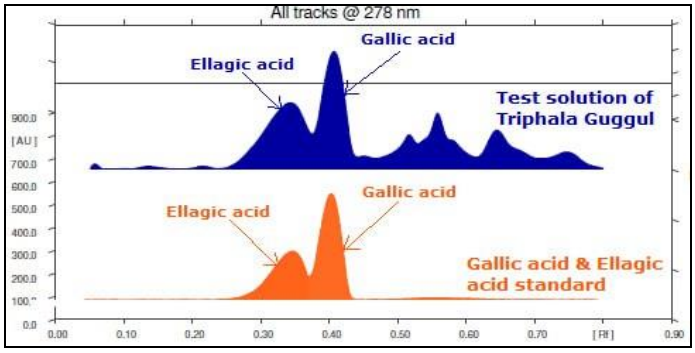




iii) Total Polyphenols (as Gallic acid, Ellagic acid)

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.





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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

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