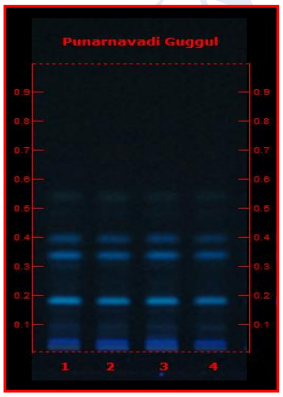
PUNARNAVADI GUGGUL

Monograph No. – 0400054 *ver 3.0*

Issue No: 03
Date of Issue: 28/10/2016
Text Reference : Bhaishajya Ratnavali (Shotha) 42/21

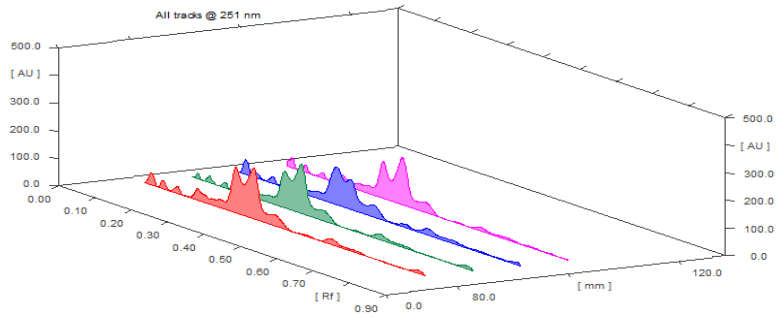
Amendment No : 03
Amendment Date : 19/07/2024
Shelf Life: 5 years

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	5.5 $\pm$ 0.5 mm
Diameter	8.0 $\pm$ 0.5 mm
Average Weight	325 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 the average weight.
Ash	Not more than 25 % w/w
Acid insoluble ash	Not more than 10 % w/w
Water soluble extractive	Not less than 12 % w/w
Alcohol soluble extractive	Not less than 10 % w/w
pH (1% Aq. Solution)	5.0 – 7.0
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 – 6 Detection – Under UV at 366 nm



Major Spots	Colour	Approx. Rf.
1	Blue	0.04
2	Light Blue	0.09
3	Fluorescent Blue	0.18
4	Fluorescent Blue	0.33
5	Fluorescent Blue	0.39
6	Light Blue	0.54

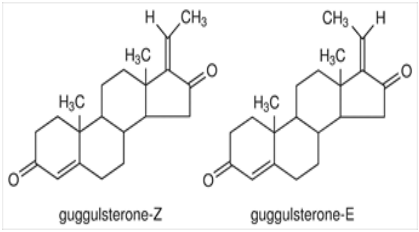
Note : † : These extra tests can be performed on every batch at extra cost. Tests can be ascertained on request.

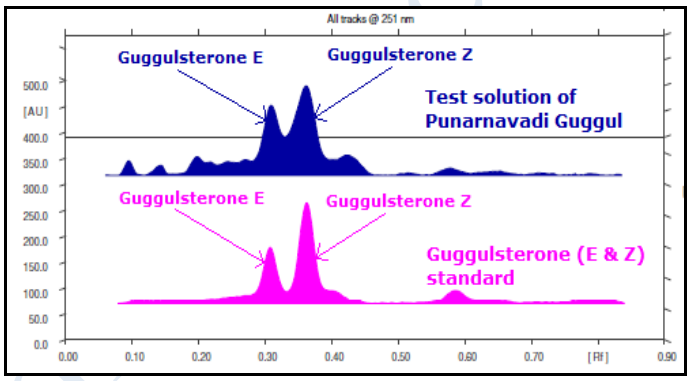


3D Peak Display of Punarnavadi Guggul at 251 nm

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.





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

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