

PANCHATIKTA GHRUTA GUGGUL

Monograph No. – 0400104 ver 3.0

Issue No: 03

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Text Reference : Rasatantrasar & Siddhaprayogasangraha 2

Amendment No : 03

Amendment Date : 06/07/2023

Shelf Life: 5 years

Description

Yellowish brown to dark brown colour, round biconvex coated tablet having SDL mark on one side.

Loss on Drying at 105°

Not more than 8 % 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

12.0 - 12.5 mm

Average Weight

625 mg ± 5%

Uniformity of weight of 20 tablets

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 3 % w/w

Water soluble extractive

Not less than 35 % w/w

Alcohol soluble extractive

Not less than 11 % w/w

pH (1% Aq. Solution)

5.0 – 7.0

Thin Layer Chromatography Solvent system

Toluene : Acetone
(9.0 : 1.0)

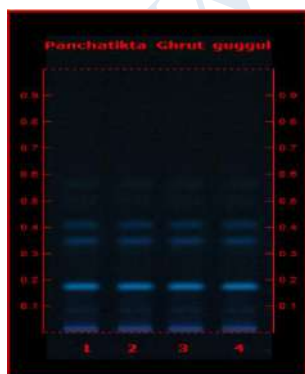
Details

Solvent of Extraction – Methanol

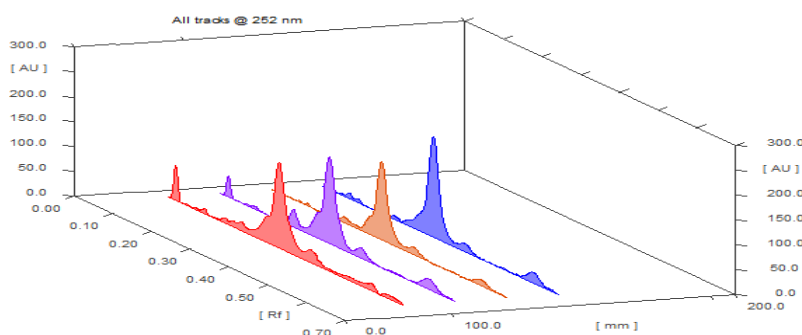
Solvent front – 90 mm

Total No. of Major spots – 6

Detection – Under UV at 366 nm



Major Spots	Colour	Approx. Rf.
1	Light Blue	0.09
2	Fluorescent Blue	0.18
3	Fluorescent Blue	0.35
4	Fluorescent Blue	0.41
5	Light Blue	0.50
6	Light Blue	0.56

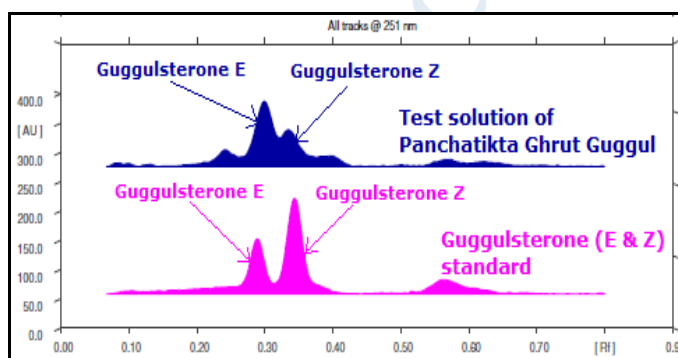
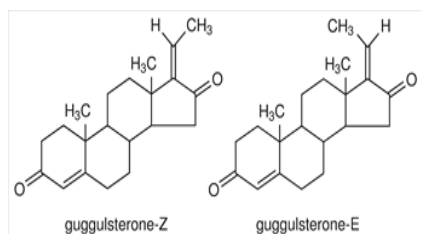


3D Peak Display of Panchatikta Ghruta Guggul at 252 nm

HPTLC Profile[†]

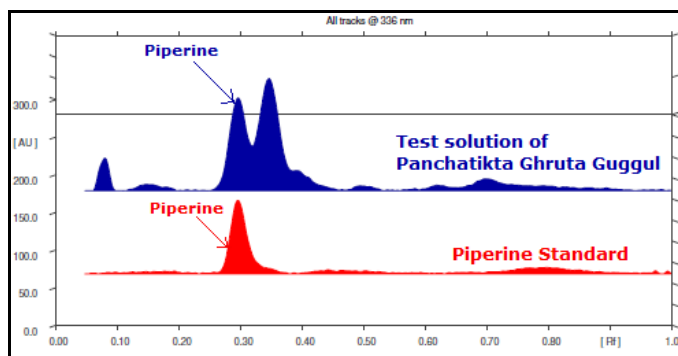
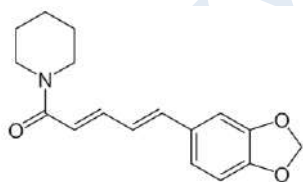
i) Guggulsterone (E & Z)

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.



Acute Toxicity

Nontoxic when single dose (10 x therapeutic dose) administered orally

Heavy metal

Lead (Pb)

NMT 10 ppm

Mercury (Hg)

NMT 1 ppm

Arsenic (As)

NMT 3 ppm

Cadmium (Cd)

NMT 0.3 ppm

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

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