

AMRUTADI GUGGUL

Monograph No. – 0400114 ver 3.0

Issue No: 03

Date of Issue: 28/10/2016

Text Ref : Bhavaprakash Madhyam Khanda (Vatarakta) 177-181

Amendment No : 04

Amendment Date : 08/04/2024

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°

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

8.0 ± 0.5 mm

Average Weight

303 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 the average weight

Ash

Not more than 30 % w/w

Acid insoluble ash

Not more than 11 % w/w

Water soluble extractive

Not less than 14 % w/w

Alcohol soluble extractive

Not less than 12 % w/w

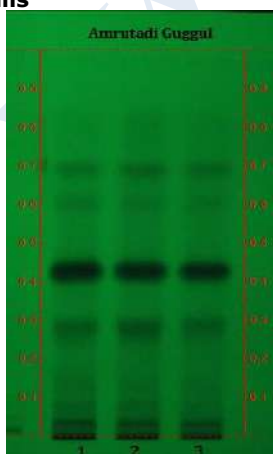
pH (1% Aq. Solution)

5.0 – 6.5

Thin Layer Chromatography Solvent system

Chloroform : Ethyl Acetate : Formic acid
(5 : 4 : 1.6)

Details



Solvent of Extraction – Methanol

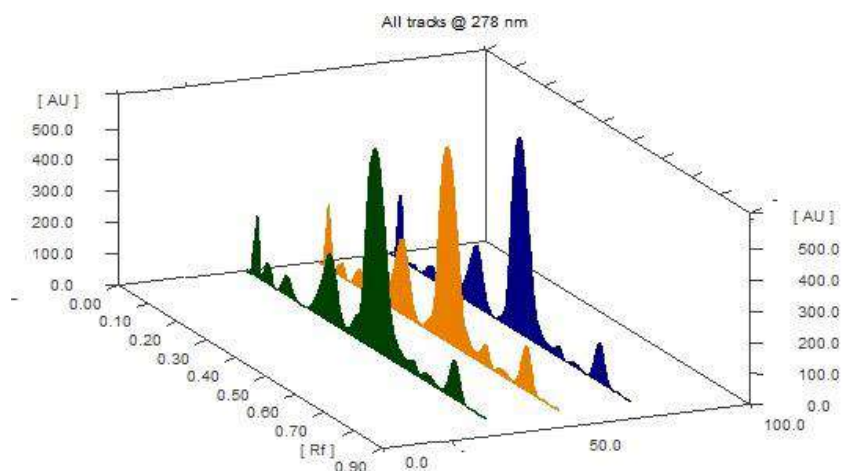
Solvent front – 90 mm

Total No. of Major spots – 5

Detection – Under UV at 254 nm

Major Spots	Colour	Approx. Rf.
1	Black	0.04
2	Gray	0.28
3	Black	0.42
4	Light Gray	0.60
5	Gray	0.69



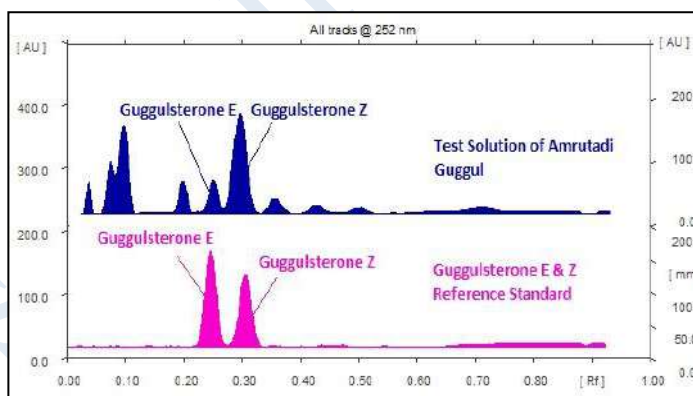
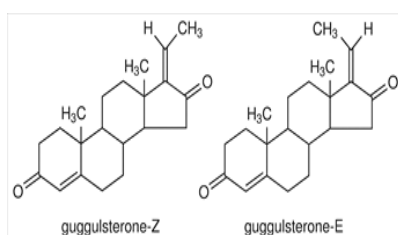


3D Peak Display of Amrutadi Guggul at 278 nm

HPTLC Profile[†]

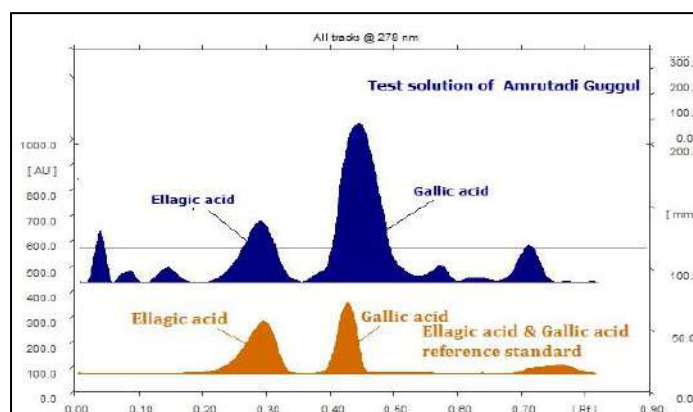
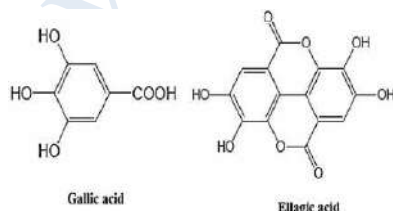
i) Guggulsterone (E & Z)

When examined in the range of 200 nm to 400 nm, the test solution shows absorption maxima at about 252 nm corresponding with Guggulsterone (E & Z) standard.



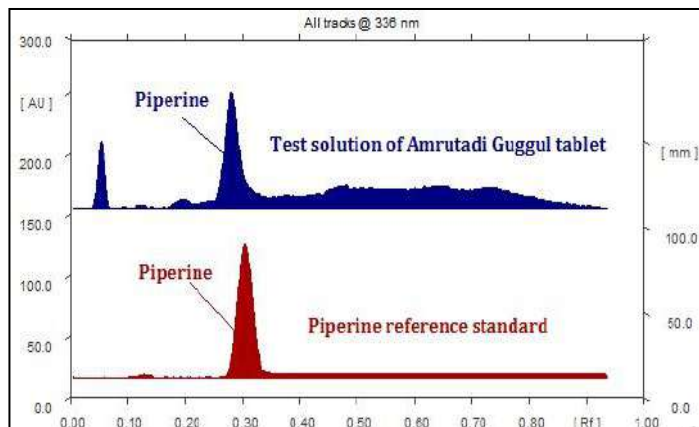
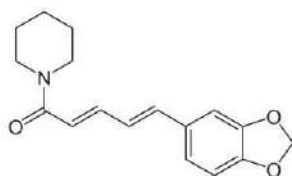
ii) Total Polyphenols (as Gallic acid & Ellagic acid)

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.



iii) 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

E. coli

Absent/g

P. aeruginosa

Absent/g

Salmonella sp.

Absent/g

Staphylococcus sp.

Absent/g

Total Microbial Plate Count (TPC)

NMT 10⁵ c.f.u./g

Total Yeast & Mould Count (TYMC)

NMT 10³ c.f.u./g

Pesticide Residue[†] (OC+OP)

Complies as per API

Aflatoxins B1,B2,G1,G2[†]

Complies as per API