

PLANTACID SUSPENSION

Monograph No. – 070232 ver 3.0

Issue No: 03

Date of Issue: 28/10/2016

Text Reference : Ayurvedic Proprietary Medicine

Amendment No : 01

Amendment Date : 24/09/2021

Shelf Life: 3 years

Description

Brown coloured suspension with a sweet taste followed by bitterness with the characteristic flavour of *Khus*.

Brix

40 – 50 %

Specific Gravity

1.1 - 1.3 g/ml

pH

6.0 - 8.5

Elemental Assay

Calcium (Ca)

0.2 – 0.5 % w/v



Thin Layer Chromatography

Mobile Phase

Toulene : Ethyl acetate : Formic acid
(5 : 5 : 1)

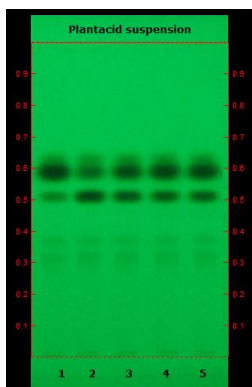
Details

Solvent of Extraction – Water + Acidified HCL + Ethyl acetate

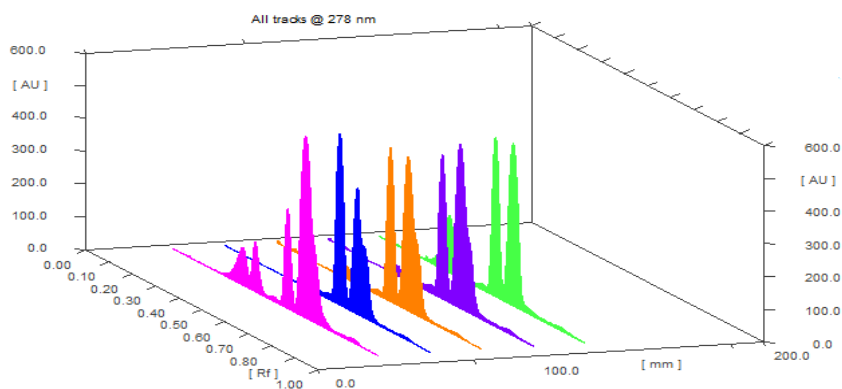
Solvent front – 90 mm

Total No. of Major spots – 5

[Detection – Under UV at 254 nm



Major Spots	Colour	Approx. Rf.
1	Light Gray	0.32
2	Light Gray	0.36
3	Black	0.51
4	Black	0.59
5	Gray	0.63



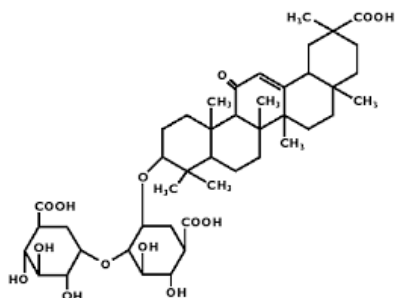
3D Peak Display of Plantacid suspension at 278 nm

Confidential – photocopy prohibited

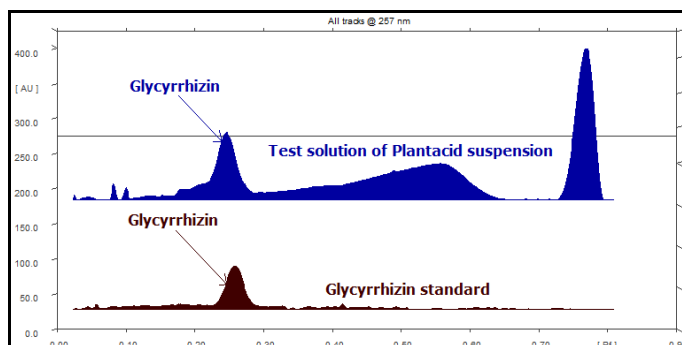
Note : † : These extra tests can be performed on every batch at extra cost. Tests can be ascertained on request.

HPTLC Profile[†]

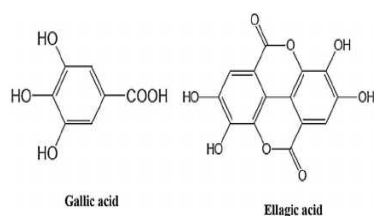
i) Glycyrrhizin



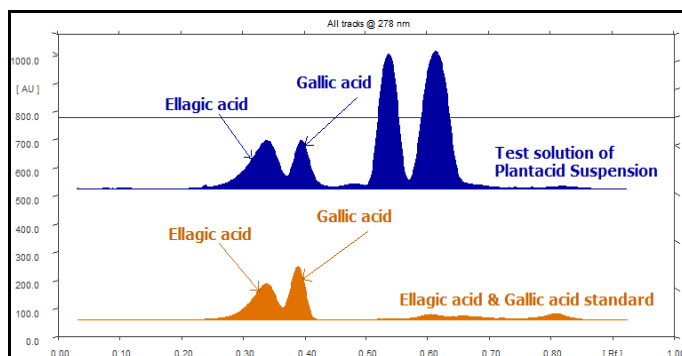
When examined in the range of 200 nm to 400 nm, the test solution shows absorption maxima at about 257 nm for Glycyrrhizin corresponding with Glycyrrhizin standard.



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.



E. coli

Absent/ml

P. aeruginosa

Absent/ ml

Salmonella sp.

Absent/ ml

Staphylococcus sp.

Absent/ ml

Total Microbial plate count (TPC)

NMT 10⁵ c.f.u./ ml

Total Yeast & Mould count (TYMC)

NMT 10³ c.f.u./ ml

Pesticide Residue[†] (OC+OP)

Complies as per API

Aflatoxins B1,B2,G1,G2[†]

Complies as per API