

## RAKTOJJAY

Monograph No. – 320006 ver 3.0

Issue No: 03

Date of Issue: 05/04/2024

Text Reference : Ayurvedic Proprietary Medicine

Amendment No : 00

Amendment Date : --

Shelf Life: 3 years

### Description

Brown to dark brown coloured liquid, characteristic fermented odour, taste sweet and astringent.

### pH

4.0 – 5.5

### Specific Gravity at 25°

1.02 - 1.20 g/ml

### Brix

28 – 38 %

### Alcohol content

7 – 11 % v/v

### Thin Layer Chromatography

#### Solvent system

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

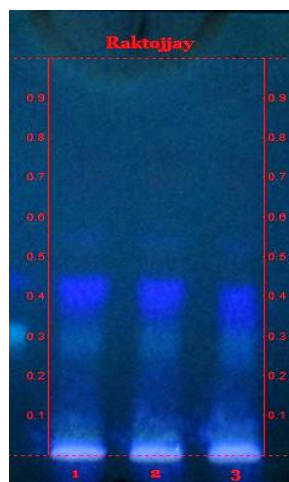
#### Details

Solvent of Extraction – Methanol

Distance travelled by solvent front – 90mm

Total No. of Major spots – 2

Visualization – Under UV at 366 nm after derivatization with NP reagent



#### Major Spots

#### Colour

#### Approx. Rf.

1

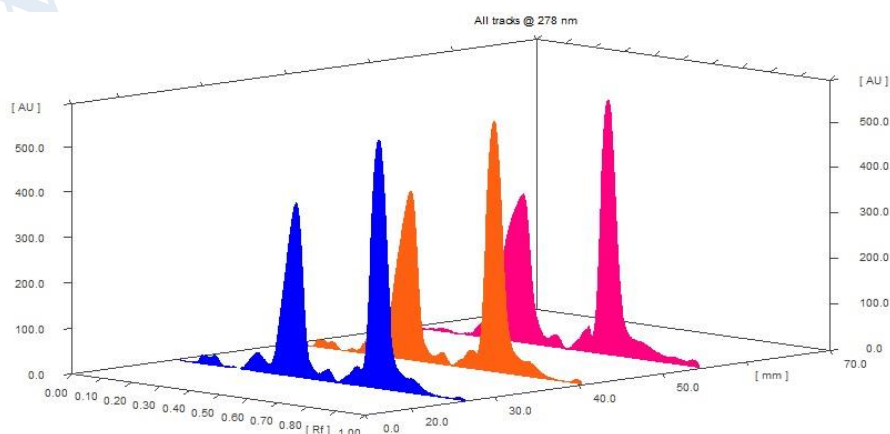
Sky blue

0.30

2

Blue

0.40



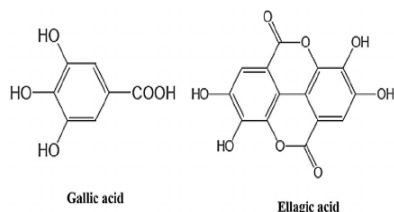
3D Peak Display of Raktojjay at 278 nm

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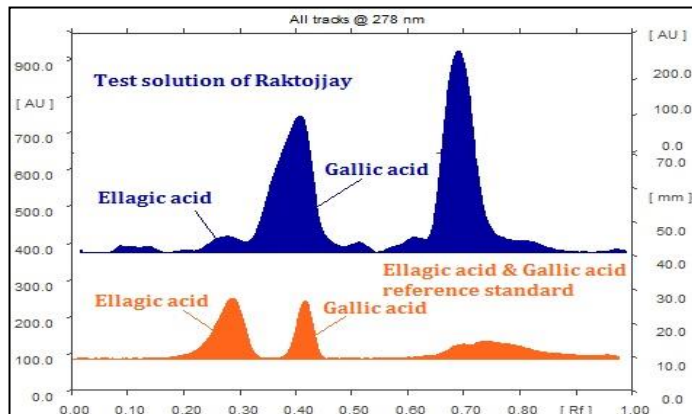
Note : † : These extra tests can be performed on every batch at extra cost. Tests can be ascertained on request.

## HPTLC Profile<sup>†</sup>

### i) 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 reference standard.



## Heavy metal

**Lead (Pb)**

Not more than 10 ppm

**Mercury (Hg)**

Not more than 1 ppm

**Arsenic (As)**

Not more than 3 ppm

**Cadmium (Cd)**

Not more than 0.3 ppm

***E. coli***

Absent/ml

***P. aeruginosa***

Absent/ml

***Salmonella sp.***

Absent/ml

***Staphylococcus sp.***

Absent/ml

**Total Microbial Plate Count (TPC)**

Not more than 10<sup>5</sup> c.f.u./ml

**Total Yeast & Mould Count (TYMC)**

Not more than 10<sup>3</sup> c.f.u./ml

**Pesticide Residue<sup>†</sup> (OC+OP)**

Complies as per API

**Aflatoxins B1,B2,G1,G2<sup>†</sup>**

Complies as per API