

## USHIRASAV

**Monograph No. – 100020 ver 3.0**

Issue No: 03

Date of Issue: 16/03/2017

Text Reference : Bhaishajya Ratnavali (Raktapitta) 13/162-166

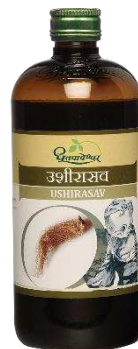
Amendment No : 01

Amendment Date : 16/03/2024

Shelf Life: 10 years

### Description

Light brown colored liquid, characteristic fermented odour, taste sweet and astringent.



### pH

3.5 – 5.0

### Specific Gravity at 25°

1.00 – 1.15 g/ml

### Brix

25 – 40 %

### Alcohol content

7 – 11 % v/v

### Thin Layer Chromatography Solvent system

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

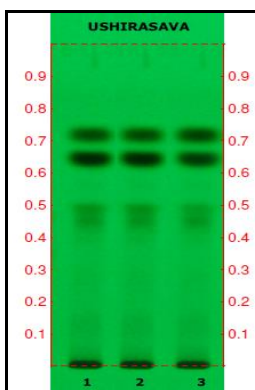
### Details

Solvent of Extraction – Methanol

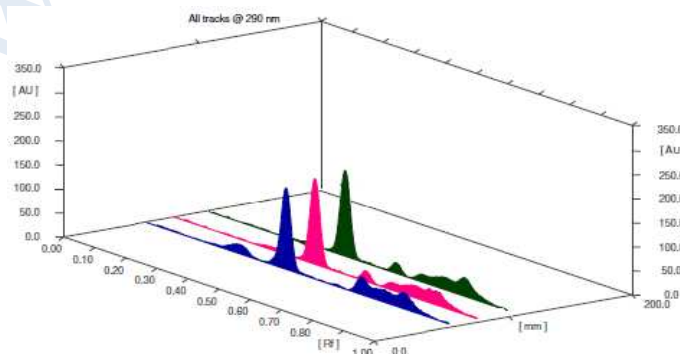
Distance travelled by solvent front – 90mm

Total No. of Major spots – 5

Detection – Under UV at 254nm



Major Spots	Colour	Approx. Rf.
1	Light Gray	0.13
2	Gray	0.45
3	Gray	0.49
4	Black	0.65
5	Black	0.73



**3D Peak Display of Ushirasav at 290 nm**

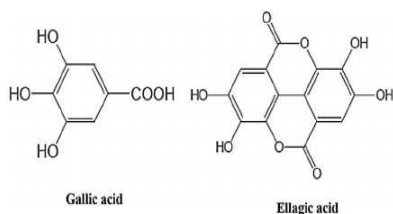
**Confidential - photocopy prohibited**

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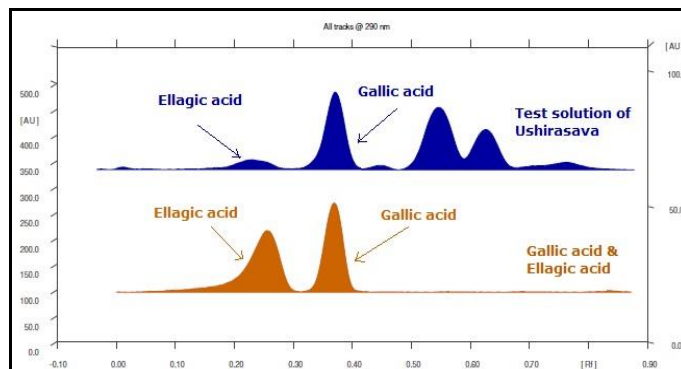
Note : † : These extra tests can be performed on every batch at extra cost. Tests can be ascertained on request.

## 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 standard.



## Heavy metal

<b>Lead (Pb)</b>	NMT 10 ppm
<b>Mercury (Hg)</b>	NMT 1 ppm
<b>Arsenic (As)</b>	NMT 3 ppm
<b>Cadmium (Cd)</b>	NMT 0.3 ppm
<b><i>E. coli</i></b>	Absent/ml
<b><i>P. aeruginosa</i></b>	Absent/ml
<b><i>Salmonella sp.</i></b>	Absent/ml
<b><i>Staphylococcus sp.</i></b>	Absent/ml
<b>Total Microbial Plate Count (TPC)</b>	NMT 10 <sup>5</sup> c.f.u./ml
<b>Total Yeast &amp; Mould Count (TYMC)</b>	NMT 10 <sup>3</sup> c.f.u./ml
<b>Pesticide Residue<sup>†</sup> (OC+OP)</b>	Complies as per API
<b>Aflatoxins B1,B2,G1,G2<sup>†</sup></b>	Complies as per API