Gujarat Ayurved University
Jamnagar

Experiment No. ______

1.0 TITLE :

2.0 Aims and objectives:

3.0 Requirements:
   Apparatus:
   Chemicals:
   Crude drug:

4.0 Diagram:

5.0 STEP WISE PROCEDURES:
   5.1 Synonyms:
   5.2 Biological source:
   5.3 Macroscopy:
      Organoleptic characters:
         5.3.1 ------
         5.3.2 ------
         5.3.3 ------

Crude drug       plant photograph
5.4 Microscopy:
5.4.1 ------
5.4.2 ------
5.4.3 ------

5.5 Chemical constituents
5.6 Rasadipanchaka:
5.6.1 Rasa
5.6.2 Guna
5.6.3 Virya
5.6.4 Vipaka
5.6.5 Prabhava

5.7 Major Pharmacological actions and uses

5.8 Allied drugs/ adulterants

5.9 Visista yoga(Marketet formulations)

5.10 Procedure:
5.10.1
5.10.2
5.10.3 Preparation of sample for sectioning

5.10.4 Staining Process

5.10.5 Mounting Process

6.0 OBSERVATIONS:
6.1 Observation table on macroscopic and organoleptic characters:

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Test</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Size</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Shape</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Surface</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Colour</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Odour</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Taste</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Fracture</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Extra features</td>
<td></td>
</tr>
</tbody>
</table>
6.2 **Observation on Microscopical characters:**

6.3 **Observation table on microchemical tests**

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Test</th>
<th>Observation</th>
<th>Inference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>T.S. + Phloglucinol+ Conc. HCL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>T.S. + Iodine solution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>T.S. + Dil. HCL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>T.S. + Dil. Sulphuric acid(60%w/w)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>T.S. + Ferric chloride</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>T.S. + Sudan III</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7.0 **CONCLUSION:** The given crude drug, due to presence of morphological characters like ------------------------- & microscopical characters like ---------------------------- is found to be ---------------------

8.0 **QUESTIONS:**

Write answers to following questions (Questions to be allotted by the subject teacher. Subject
(Teacher shall also add few more relevant questions)

1. Give biological source of ----------- stem.
2. Draw neat labeled macroscopical diagram of ----------- stem.
3. Which microscopic character is detected by phloroglucinol in case of ----------- stem?
4. Write two crude drugs, which contain starch in their stem
5. Mention the adulterant of ---------------stem in the market
6. Give the process of chemical test by which starch are detected from ----------- stem.
7. Write three synonyms of ----------- pertain to its morphological characters.
8. Which alkaloids are present in ----------- stem?
9. Write four Therapeutic indications of of ----------- stem.
10. Why is ----------- is considered ad jwarahara?
11. How ----------- is propagated?
12. What are the grahyaswarupa (identifying characters) of -----------
(Space for answers of point no 8.0)
Figure showing macroscopic features
Figure showing microscopic features