A COMPARATIVE STUDY OF ORGANOLEPTIC PARAMETERS FOR KUSHMANDA BEEJA CHURNA AND GRANULES

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ABSTRACT

The test drug seeds of *Benincasa hispida* (Thunb.) Cong. was procured from pharmacy and the granules were prepared from procured seed samples and were used to test the organoleptic parameters. The Churna was Yellowish white, smooth, sticky powder with characteristic odour & slightly oily taste while the Granule are Yellowish white, coarse powder with sweet taste & characteristic odour. Due to Agni samyoga and addition of sugar content the taste & texture vary in Churna and granule while colour and odour remain unchanged.

Keywords: Kushmanda, *Benincasa Hispida*, Organoleptic Parameters, Churna, Granules, Colour, Odour and taste.

INTRODUCTION

Today Ayurvedic science is spreading its wings all over the world where the drug lore of this system has been the center of global interest. Ayurveda has quoted that; as the Prakriti varies from person to person similarly every drug has got its own physical and chemical characteristics which help to separate it from other closely related drug. The Phytochemical studies of these drugs done by making use of various parameters help in standardizing the drug and authenticate it. So to sustain its valuable contribution in allaying disease in this modern era it is expected an imminent need for a well coordinated research plan touching phytochemical study of drug. It is essential to gratify the international standards and quality control of the drug used by convincing the drug regulatory authorities. The present study was carried out to analyze the organoleptic parameters of test drug¹-⁶.

MATERIALS AND METHODS

The test drug, seeds of *Benincasa hispida* (Thunb.) Cong. was procured from Agra (U.P.) by Pharmacy of IPGT & RA, GAU, Jamnagar and authenticated in the Pharmacognosy Department of IPGT & RA, G.A.U, Jamnagar⁷,⁸.

The granule was prepared from procured seed samples from Agra and was used for organoleptic studies.

Preparation of Kushmanda beeja granules: Kushmanda Beeja Churna (60 mesh size) was prepared. Sugar was taken in equal amount to K. Beeja Churna and four times of water was added to it followed by mild heating and Chasni (60% sugar solution) was prepared. Then the K. Beeja churna was thoroughly mixed with the solution, passed through ten number mesh to prepare the granules and shade dried before subjecting for further study.

ORGANOLEPTIC PARAMETERS

The primary subtle parameters yet important, the affirmation of which generates confidence in patient as well as in the physician besides quality control measures *Rupa* (colour), *Rasa*(taste), *Gandha* (odour) and *Sparsha* (texture) pertaining to *Pancajnanendriya Pariksha* are noted.

RESULTS

The organoleptic characters of the Kushmanda Beeja Churna and Kushmanda Beeja granule samples are tabulated as below.
Table 1: Organoleptic parameters of Kushmanda Beeja Churna and granule sample

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Parameters</th>
<th>Kushmanda beeja churna (KBC)</th>
<th>Kushmanda beeja granule (KBG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Texture</td>
<td>Slightly smooth &amp; sticky</td>
<td>Coarse</td>
</tr>
<tr>
<td>02</td>
<td>Color</td>
<td>Yellowish white</td>
<td>Yellowish white</td>
</tr>
<tr>
<td>03</td>
<td>Taste</td>
<td>Characteristic</td>
<td>Sweet</td>
</tr>
<tr>
<td>04</td>
<td>Odor</td>
<td>Characteristic</td>
<td>Characteristic</td>
</tr>
</tbody>
</table>

KBC = Kushmanda Beeja Churna  
KBG = Kushmanda Beeja granule  
**Churna:** Yellowish white, smooth, sticky powder with characteristic odour & slightly oily taste.  
**Granule:** Yellowish white, coarse powder with sweet taste & characteristic odour.

**DISCUSSION**

Organoleptic parameters of Kushmanda Beeja Churna and Kushmanda Beeja Granules were carried out and Kushmanda Beeja Churna Yellowish white, smooth, sticky powder with characteristic odour & slightly oily taste while Kushmanda Beeja Granules are Yellowish white, coarse powder with sweet taste & characteristic odour. The texture is stickier in Churna form while it is coarse in Granules form. Due to *Agni samyoga* and addition of sugar content the taste & texture vary in Churna and granule while colour and odour remain unchanged.

**CONCLUSION**

Phytochemical study deals mainly with material and methods and organoleptic parameters for both Kushmanda Beeja Churna and Kushmanda Beeja Granules. The materials and methods content the seed powder of Kushmanda and granules of Kushmanda seeds. Due to addition of sugar the granules of Kushmanda Beeja becomes sweet compared to Kushmanda Beeja Churna so hence further research can enhance some more Organoleptic parameters of Kushmanda Beeja

**REFERENCES**


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