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Pharmaceutical and Analytical Study of Udayabhaskara Rasa

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Abstract:


Udayabhaskara rasa is a herbomineral preparation which contains 10 parts of *GandhakamaritaTamraBhasma*, 5 parts of *maricha* and 2 parts of *shu.vatsanabha* explained in *Rasendra Sara Sangraha* in *Kushtaroga Chikitsa adhyaya*¹.

Aim: To prepare *udayabhaskara rasa* and analyze it using various physicochemical parameters and instrumental analysis.

Materials and methods: *Udayabhaskara rasa* was prepared as per the classical method explained in the reference to evaluate the standard procedure. During the pharmaceutical process all the ingredients were prepared separately, mixed thoroughly and trituated until become a homogenous mixture. **Results:** Initial weight of drugs taken for the preparation *udayabhaskara rasa* is 170g after continues mardana it was 168g loss 2g and yield 98.8%, Physico-chemical Analysis: pH- 5.02 Total, ash-36%, Acid insoluble ash-12%, Loss on drying- 1.42%, Copper assay-98.48%. Organoleptic characters: Colour-black, Form-fine powder, Touch-smooth and soft, Odour- smell of *gomuthra* and *maricha*. Instrumental analysis: Xrd peaks of *udayabhaskararasa* were compared with standard value confirmed the presence of *cuS* and it was Hexagonal. SEM-EDX elements present in the *udayabhaskara rasa* are Carbon-33.3%, Oxygen-21.15%, Pottassium-1.67%, Sulphur-7.54%, Calcium-0.32%, Copper-35.56%.

Mean particle size of *udayabhaskara rasa* is 300-900 nano meter. FTIR: *Udayabhaskara rasa* showed C-H bonding present in formulation suggesting alkanes and C=C bonding suggesting the presence of alkynes.

Key words: Udayabhaskararasa, preparation, physico-chemical analysis, Instrumental analysis

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