

## A Study of *Modakaya* with Special Reference to *Sanjeewanie Kameshwari Rasayanaya*

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*Modaka*, a preparation in Ayurveda pharmaceuticals involves grinding powdered ingredients with base like bee honey and ghee. This study focuses on *Sanjeewanie kameshwari rasayanaya* which is renowned for its rejuvenative and aphrodisiac properties among *Modaka* preparations. *Sanjeewanie kameshwari rasayanaya* was prepared according to Sri Lankan Ayurveda pharmacopeia following standard operating procedures at the *Sanjeewani* Ayurveda Drug Company, Embilipitiya. The quality and safety of the product were evaluated through organoleptic analysis, physico-chemical assessments, total sugar content, detection of coloring matter, free fatty acids, aflatoxins, microbiological analysis, and heavy metal analysis using microwave digestion and chromatographic techniques. The drug sample and standard raw material mixture were extracted into dichloromethane separately for chromatographical studies and developed chromatograms (Ethyl-acetate: Dicholomethane: Cyclohexane 0.1:3.4:1.5) were visualized under 254nm and 366nm UV light after spraying with Vanillin-sulphate reagent. Physically, *Sanjeewanie kameshwari rasayanaya* exhibited a loss on drying of 3.6% and total-ash of 2.8%, meeting standard values. Microbiological assessments revealed, aerobic plate count ( $1.9 \times 10^4$ ), *Escherichia coli* (absent), *Staphylococcus aureus* (<10), yeast and mould count (<100), *Salmonella* spp. (absent), *Pseudomonas aeruginosa* (<100) were within acceptable limits. Heavy metals like lead, cadmium, arsenic, and mercury, aflatoxin B1, B2, G1, G2 and total aflatoxin and synthetic dyes were not detected in the sample. Total sugar content and free fatty acids were 27.7% and 2.0% respectively. The TLC fingerprint profile of the drug sample was comparable in terms of Rf values (0.20, 0.27, 0.39, 0.44, 0.50, 0.58, 0.69, 0.78, 0.89, 0.94) and colors to the profile of standard raw material mixture. In conclusion, *Sanjeewanie kameshwari rasayanaya* demonstrates its status as a standard drug by meeting established safety and quality standards.

**Keywords:** *Sanjeewanie Kameshwari Rasayanaya, Microbial Contamination, TLC*