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ABSTRACTS







2nd International Research Symposium on Traditional Medicine (AyurEx Colombo) – 2024

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Abstracts

3rd - 5th May 2024



The Faculty of Graduate Studies, University of Kelaniya,
Sri Lanka
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Telephone: +9411 2 903952/3

: +9411 2 903952/3 : (+94) 11 289691/2

ISSN: 978-624-5507-68-9

Published by

Faculty of Graduate Studies University of Kelaniya Sri Lanka

Cover Designer: Mr. Dilshan Sanjeewa

Layout Designer and Editorial Assistant : Ms. D.S.R.E.S. Gunawardhana

Abstract ID - 107

Preparation and characterization of *Lokanatha Rasa* – An Ayurveda mercurial preparation

S.K.M.K. Herapathdeniya1*, P.A. Paranagama2 and J.G.S. Ranasinghe3

¹Department of Ayurveda Pharmacology, Pharmaceutics and Community Medicine, Faculty of Indigenous Medicine, University of Colombo, Sri Lanka

²Department of Chemistry, Faculty of Science, University of Kelaniya, Sri Lanka

³Department of Biochemistry, Faculty of Medicine, University of Peradeniya, Sri Lanka

Rasa Shastra stands as one of the main branches within Ayurveda pharmaceutics, with Mercury serving as its primary constituent. Lokanatha rasa (LKN) emerges as a promising mercurial preparation, as documented in various Ayurveda Rasa Shastra texts, particularly for addressing liver and spleen disorders. Our study aimed to synthesize LKN following standardized protocols outlined in the classical Rasa Shastra text Rasendra sara sangraha. Subsequently, we conducted comprehensive physicochemical characterization utilizing advanced instrumental techniques, including X-ray diffraction (XRD), and Fourier transform infra-red spectroscopy (FTIR). Notably, our XRD analysis revealed CaCO₃ exhibiting the highest peak in a hexagonal structure within the formulation. Moreover, LKN comprised constituents such as metacinnabar, hematite (Fe₂O₃), and free sulfur. FTIR spectroscopy depicted broad peaks at 711 cm⁻¹ and 1792 cm⁻¹, where the latter indicated the presence of C=O stretching. XRD analysis showed spherical particles with particle sizes spanning from 1 nm to 200 nm. Additionally, these observations highlighted crystallite agglomeration within the LKN formulation. Our findings underscore the pivotal role of modern analytical techniques in assessing the quality aspects of LKN. We believe that these research insights are imperative for the further advancement and standardization of LKN within Ayurvedic practice.

Keywords: Lokanatha rasa, Physicochemical, Rasa Shastra, Standardization

^{&#}x27;herapathdeniyaskmk@gmail.com