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**EVALUATION OF THE ANTI-INFLAMMATORY EFFECT OF *LOKANATHA RASA*:  
A MERCURIAL PREPARATION IN AYURVEDA *RASA SHASTRA***

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*Rasa shastra* is a prominent branch of Ayurveda pharmaceutics, where Mercury stands as the primary material of significance. Pharmaceutical formulations utilizing Mercury are termed *Rasaushadies*, renowned for their superiority owing to their quick efficacy, low dosages, and absence of an unpleasant taste. *Lokanatha rasa* holds paramount importance as a potent remedy for liver, and spleen disorders, and edema conditions. This study aimed to conduct an *in vitro* evaluation of the anti-inflammatory potential of self-prepared *Lokanatha rasa* by assessing its effect on hypotonicity-induced lysis of Human Red Blood Cells. For comparison, Diclofenac sodium was used as a positive control. The degree of membrane stabilization was determined at various concentrations of *Lokanatha rasa*. Notably, the *Lokanatha rasa* solution exhibited a maximum membrane stabilization of 79.52% at a concentration (dose) of 500µg/mL, thereby indicating promising anti-inflammatory activity in a concentration-dependent manner.

**Keywords:** *Lokanatha rasa*, *Rasaushadie*, Anti-inflammatory, Human red bloodcells membrane stabilization