

MICROENCAPSULATION OF ALOE VERA OIL FOR PERSONAL HEALTH PRODUCTS–PROCESS OPTIMIZATION

MEENU SRIVASTAVA & KALINDRI VEMA

Department of Textiles & Apparel Designing, College of Home Science, MPUAT, Udaipur, Rajasthan, India

ABSTRACT

Microencapsulation is an effective and important tool to prepare oil-based high-quality and health-beneficial products in various industries in order to enhance their chemical, oxidative, and thermal stability. Present research is based on the development of A. Vera oil micro capsules by process optimization using conservation techniques. The findings of the study revealed that the standardization process of microencapsulation with Aloe Vera oil lead to the formation of microcapsules at the optimized ratio 2:4:4 of oil: gum: gelatin, at an optimized 50°C temperature having initial pH 4.5 and final pH 9.5.

KEYWORDS: Microencapsulation, Aloe Vera Oil, Process, Optimization