

Review on Sea Buckthorn Berries in Poly herbal Lipstick Formulation

**Gauri Dhairyashambho Solat¹, Ram Birudev Gore²,
Tushar Sambhaji Deshmukh³, Prof. Vidya R Anap⁴**

Students, Department of Pharmacy^{1,2,3}

Guide, Department of Pharmacy⁴

Mrs. Saraswati Wani College of Pharmacy, Ganegaon, Maharashtra

Affiliated to Dr Babasaheb Aambedkar Technological University, Lonore, Raigad

gaurisolat24@gmail.com

Abstract: *Sea buckthorn (Hippophae rhamnoides) is a nutrient-dense berry valued for its bioactive constituents, including carotenoids, flavonoids, vitamins, and essential fatty acids. These compounds exhibit antioxidant, anti-inflammatory, photoprotective, and wound-healing activities, making sea buckthorn a promising ingredient for cosmetic and therapeutic applications, particularly in poly herbal lipstick formulations 1,2.*

Incorporating sea buckthorn oil or extracts into lipsticks not only provides natural coloration but also enhances moisturization, barrier protection, and overall lip health, offering a combined cosmetic and functional advantage. Polyherbal formulations often combine sea buckthorn with other natural pigments, such as beetroot (betalains), along with emollients like shea butter and cocoa butter, improving texture, spreadability, and consumer appeal 3,4.

Formulation challenges such as color fading, lipid oxidation, strong odor, and standardization of bioactive content can be addressed through antioxidants, encapsulation methods, and controlled processing techniques. Regulatory guidelines, including the EU Cosmetic Regulation (EC No. 1223/2009) and FDA Cosmetic Ingredient Review, classify sea buckthorn as safe for cosmetic use, provided proper microbial, heavy metal, and preservative standards are followed 5,6.

Future directions involve advanced extraction techniques, nanoencapsulation, clinical validation, and development of multifunctional cosmeceutical lipsticks, ensuring enhanced stability, bioavailability, and consumer acceptability. This review provides a comprehensive overview of the Pharmacognosy, phytochemistry, formulation strategies, functional benefits, and regulatory aspects of sea buckthorn in poly herbal lipstick, highlighting its potential in natural cosmetic development.

Keywords: Sea Buckthorn, Carotenoids, Flavonoids, Omega-7 Fatty Acids, Herbal Cosmetics, Antioxidant Activity, Lip Care, Natural Colorants, Emollients

