

Title: Compatibility and performance study of the new natural preservative Neolone® Bio G (LAE) in personal care products.

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One of the most important challenges in the cosmetic industry is to create new natural and organic formulas due to the growing customer demand of this kind of personal care products. In order to satisfy the consumers, most of the cosmetic companies are developing new reagents as well as readapting and creating new innovative formulas.

Traditionally, parabens were commonly used as preservatives in cosmetics and pharmaceutical products because of their high microbiological efficiency. Their chemical structure consists on esters of parahydroxybenzoic acid.

Even there is not any scientific study certifying this, some people say that parabens may have a prejudicial effect to the endocrine disruptors. Due to that, companies are trying to find paraben-free alternatives. At this point, Neolone® Bio G has a role to play. (Figure 1)

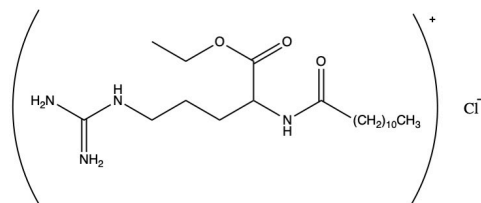


Figure 1: Chemical structure of Neolone® Bio G (Ethyl Lauroyl Arginate HCl)

The aim of this project is to develop a compatibility and performance study of the new natural preservative Neolone® Bio G in personal care products. The final objective of this work is to do a guideline of the way to work and the usage level recommendation for a correct microbiological protection of the preservative mentioned above in personal care products.

Keywords: Natural preservative, cosmetics, personal care, Neolone® Bio G, LAE.