



## Safety Statement

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Product Name: ACB Cationic Glycoprotein PF

Code: 20391PF

INCI Name: Lactobacillus/Eriodictyon Californicum Ferment Extract & Phospholipids

ACB Cationic Glycoprotein PF is manufactured by macerating and fermenting *Eriodictyon californicum* with *Lactobacillus*, then filtering to isolate the cationic fraction. Phospholipids are then added and dispersed prior to filtration.

To qualify for Generally Recognized as Safe (GRAS) status, the FDA requires that a compound be both of natural origin and intentionally used in food and/or nutritional wellness products. *Eriodictyon californicum*, phospholipids, and *Lactobacillus* are all of natural origin.

*Lactobacillus* is a genus of microorganisms used to produce a variety of food products. It is a type of Lactic Acid Bacteria (LAB) and converts various sugars into lactic acid. Any existing LAB in ACB Cationic Glycoprotein PF is removed by filtration.

*Eriodictyon californicum*, more commonly known as yerba santa, is an astringent herb with a surprisingly pleasant taste. It is used often in food flavorings and cough syrups to disguise the taste of other ingredients. It can be used as a tea or an alcoholic tincture.<sup>1</sup>

Phospholipids used to manufacture ACB Cationic Glycoprotein PF are derived from hydrogenated soybean oil (*Glycine max*) which is widely used in the food industry. Hydrogenated soybean oil is classified as a Generally Recognized as Safe (GRAS) substance according to the FDA.<sup>2</sup>

Based on the above supporting information, *Lactobacillus*, *Eriodictyon californicum*, and phospholipids may all be classified as Generally Recognized as Safe (GRAS) according to the FDA's Federal Food, Drug and Cosmetic Act.<sup>3</sup>

The act states:

Any substance that is intentionally added to food is a food additive, that is subject to premarket review and approval by FDA, unless the substance is generally recognized, among qualified experts, as having been adequately shown to be safe under the conditions of its intended use, or unless the use of the substance is otherwise excluded from the definition of a food additive.<sup>3</sup>

The Cosmetic Ingredient Review (CIR) conducted a safety assessment of various types of plant-derived fatty acid oils, including hydrogenated soybean oil. The report concluded that all types of soybean oil forms are safe for use in cosmetic preparations.<sup>4</sup>

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Allergic reactions to phospholipids derived from hydrogenated soybean oil are very rare, but are possible. Those with known allergies or sensitivities to soy should avoid products containing it.<sup>5</sup>

ACB Cationic Glycoprotein PF was tested using *in vitro* dermal and ocular irritation models. This product was found to be non-irritating in both models. The full report is attached for reference.

The above information supports the safety of ACB Cationic Glycoprotein PF in cosmetic applications at use levels of 1.0-5.0%. No further testing is required at this time.

1. "Yerba Santa". Mountain Rose Herbs. <https://www.mountainroseherbs.com/products/yerba-santa/profile>
2. "Alphabetical List of SCOGS Substances". US Food & Drug Administration. <http://www.fda.gov/Food/IngredientsPackagingLabeling/GRAS/SCOGS/ucm260428.htm>
3. Federal Food, Drug and Cosmetic Act. U.S Food and Drug Administration. [www.fda.gov](http://www.fda.gov).
4. "Final Report of Plant-Derived Fatty Acid Oils as Used in Cosmetics." Cosmetic Ingredient Review. <http://online.personalcarecouncil.org/ctfa-static/online/lists/cir-pdfs/FR577.pdf>
5. "Soy Allergy". Mayo Clinic. <http://www.mayoclinic.org/diseases-conditions/soy-allergy/basics/prevention/con-20031370>

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