



## Safety Statement

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Product Name: ACB Kale Protein Blend

Code: 20036

INCI Name: Hydrolyzed Kale Protein & Hydrolyzed Carrot Protein & Hydrolyzed Lemon Protein

ACB Kale Protein Blend is manufactured by enzymatic hydrolysis of *Brassica oleracea acephala* (kale), *Daucus carota sativa* (carrot), and *Citrus limon* (lemon) at an elevated temperature followed by filtration.

Hydrolyzed kale, carrot, and lemon proteins as used in this product are protein hydrolysates derived from natural plant material. The Cosmetic Ingredient Review (CIR) published a report which included the safety of multiple protein hydrolysates as used in cosmetics. Ocular and dermal irritation studies showed that hydrolyzed proteins of various origins are both non-irritating and non-sensitizing. Most hydrolyzed proteins are also found in the foods we consume daily.<sup>1</sup> Therefore, these hydrolyzed proteins derived from kale, carrot and lemon plants may also be classified as Generally Recognized as Safe (GRAS) according to the FDA's Federal Food, Drug and Cosmetic Act.<sup>2</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>2</sup>

ACB Kale Protein Blend was tested using *in vitro* dermal and ocular irritation models. This product was found to be non-irritating in both models.

ACB Kale Protein Blend was also tested for its effect on cell viability and metabolism. The assay concluded that it is not cytotoxic and does not inhibit cell viability, indicating it can safely be used in cosmetic materials. The full irritation and viability reports are attached for reference.

The above information supports the safety of ACB Kale Protein Blend in cosmetic applications at use levels of 1.0 – 10.0%. No further testing is required at this time.

1. "Hydrolyzed Source Proteins as Used in Cosmetics" Cosmetic Ingredient Review. <http://www.cir-safety.org/sites/default/files/hprtms052012slr.pdf>
2. Federal Food, Drug and Cosmetic Act. U.S Food and Drug Administration. [www.fda.gov](http://www.fda.gov).

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