



# Safety Statement

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Product Name: ACB Tonka Bean Bioferment PF

Code: 20431PF

INCI Name: Lactobacillus/Dipteryx Odorata Seed Ferment Filtrate

ACB Tonka Bean Bioferment PF is manufactured by first macerating and fermenting *Dipteryx odorata*. The fermentation is carried out using *Lactobacillus*. The fermentation product is then filtered.

*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 Tonka Bean Bioferment PF is removed by filtration. Since *Lactobacillus* species are intentionally used in food, they may be classified as Generally Recognized as Safe (GRAS) according to the FDA's Federal Food, Drug and Cosmetic Act.<sup>1</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>1</sup>

*Dipteryx odorata*, or tonka beans, are widely used as fragrance ingredients in products like soaps due to their coumarin content. While ingesting tonka beans is not recommended by the FDA, there is no indication that topical application of tonka bean extracts is harmful.<sup>2</sup>

ACB Tonka Bean Bioferment 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 Tonka Bean Bioferment PF in cosmetic applications at use levels of 1.0 – 2.0%. No further testing is required at this time.

1. Federal Food, Drug and Cosmetic Act. U.S Food and Drug Administration. [www.fda.gov](http://www.fda.gov).
2. "Tonka Bean". [Natural Medicines Comprehensive Database](http://naturaldatabase.therapeuticresearch.com/nd/PrintVersion.aspx?id=687&AspxAutoDetectCookieSupport=1).

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