



Safety Statement

info@activeconceptsllc.com • Phone: +1-704-276-7100 • Fax: +1-704-276-7101

Product Name: AC DermaPeptide Warming PF

Code: 20458PF

INCI Name: Lactobacillus/Capsicum Frutescens Fruit Ferment Extract

AC DermaPeptide Warming PF is manufactured by fermenting *Capsicum frutescens* in the presence of *Lactobacillus*, then filtering.

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 AC DermaPeptide Warming 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.¹

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.¹

The Cosmetic Ingredient Review (CIR) conducted a safety assessment on *Capsicum annuum*, *Capsicum frutescens*, their extracts, and capsaicin, an ingredient found in *Capsicum* plants. The assessment took into account the relatively low use level of capsaicin in cosmetic products (roughly 0.05% on average) and the GRAS status of the spice paprika (plant source *Capsicum annuum*) for its intended use in food. Capsaicin can be irritating to the skin above certain percentages, but the amount at which it appears in AC DermaPeptide Warming PF should not cause irritation issues if employed at the suggested use level. Capsaicin can also enhance penetrate of certain cosmetic agents through human skin, so care should be taken in using ingredients that contain capsaicin in cosmetic applications. The CIR concluded that capsaicin, and its associated plant extracts, are safe as used in cosmetics, assuming the formulations they are used in are designed to avoid irritation issues.²

AC DermaPeptide Warming 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 AC DermaPeptide Warming PF in cosmetic applications at use levels of 0.5 - 5.0%. No further testing is required at this time.

This information is presented in good faith but is not warranted as to accuracy of results. Also, freedom from patent infringement is not implied.
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1. Federal Food, Drug and Cosmetic Act. U.S Food and Drug Administration. www.fda.gov.
2. "Final Report on the Safety Assessment of Capsicum Annuum Extract, Capsicum Annuum Fruit Extract, Capsicum Annuum Resin, Capsicum Annuum Fruit Powder, Capsicum Frutescens Fruit, Capsicum Frutescens Fruit Extract, Capsicum Frutescens Resin, and Capsaicin". Cosmetic Ingredient Review. <http://online.personalcarecouncil.org/ctfa-static/online/lists/cir-pdfs/pr319.pdf>

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