

## Studies

<b>Study title</b>	<b>Polymorphous light eruption and a new potent antioxidant and UVA-protective formulation as prophylaxis</b>
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<b>Source</b>	Photoderm., Photoimmun., Photomed. (in press)
<b>Study Centre</b>	University Hospital Eppendorf, Department of Dermatology, Hamburg, Germany
<b>Study objective</b>	Documentation of prophylactic efficacy in patients with polymorphous light eruption (PLE)
<b>Test products</b>	<b>Eucerin® Sun Allergy Protection Cream Gel 15</b> with the photoprotective antioxidant system with AGR, hydrodispersion gel SPF 15 without the photoprotective antioxidant system, and placebo
<b>Method</b>	Randomised, double-blind, placebo-controlled photoprovocation study (4 x 60–100 M/cm <sup>2</sup> UVA, 340–440 nm) on 4 consecutive days
<b>Participants</b>	30 patients
<b>Diagnosis</b>	Documented history of PLE
<b>Application</b>	30 minutes prior to photoprovocation
<b>Test areas</b>	Four 5 x 5 cm test areas on the upper arm, randomised allocation of test products
<b>Results</b>	<ul style="list-style-type: none"> <li>The study results show a statistically highly significant prophylactic efficacy of <b>Eucerin® Sun Allergy Protection Cream Gel 15</b>.</li> <li>Mild symptoms of PLE occurred in the test area treated with <b>Eucerin® Sun Allergy Protection Cream Gel 15</b> in just one patient. In comparison, 41.4% of the test areas treated with the product without the photoprotective antioxidant system and 62.1% of the test areas treated with placebo showed clinical signs of PLE.</li> <li>Itching occurred in 51.7% and 75.9% in the area treated with the product without the antioxidant system and with the placebo, respectively. In the area treated with <b>Eucerin® Sun Allergy Protection Cream Gel 15</b>, this occurred only in two patients.</li> <li>93.1% of the patients assessed the efficacy of <b>Eucerin® Sun Allergy Protection Cream Gel 15</b> as “very good”.</li> </ul>
<b>Conclusion</b>	<b>Eucerin® Sun Allergy Protection Cream Gel 15</b> provides significant protection against polymorphous light eruptions (PLE) and was therefore clearly more effective than sunscreens without the photoprotective antioxidant system with AGR



Documentation of prophylactic efficacy in patients with polymorphous light eruption (PLE)

**Eucerin® Sun Allergy Protection Cream Gel 15** with the photoprotective antioxidant system with AGR, hydrodispersion gel SPF 15 without the photoprotective antioxidant system, and placebo

Randomised, double-blind, placebo-controlled photoprovocation study (4 x 60–100 M/cm<sup>2</sup> UVA, 340–440 nm) on 4 consecutive days

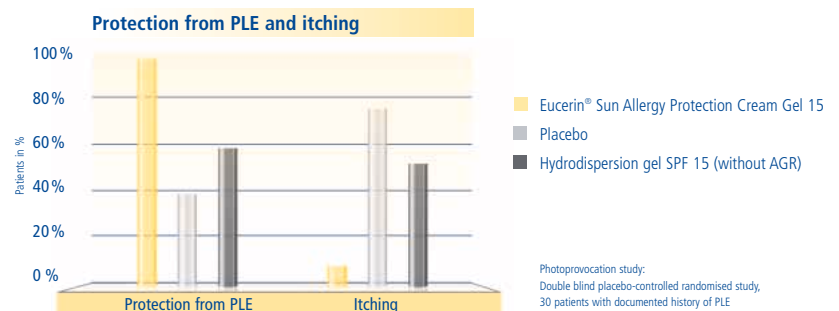
30 patients

Documented history of PLE

30 minutes prior to photoprovocation

Four 5 x 5 cm test areas on the upper arm, randomised allocation of test products

- The study results show a statistically highly significant prophylactic efficacy of **Eucerin® Sun Allergy Protection Cream Gel 15**.
- Mild symptoms of PLE occurred in the test area treated with **Eucerin® Sun Allergy Protection Cream Gel 15** in just one patient. In comparison, 41.4% of the test areas treated with the product without the photoprotective antioxidant system and 62.1% of the test areas treated with placebo showed clinical signs of PLE.
- Itching occurred in 51.7% and 75.9% in the area treated with the product without the antioxidant system and with the placebo, respectively. In the area treated with **Eucerin® Sun Allergy Protection Cream Gel 15**, this occurred only in two patients.
- 93.1% of the patients assessed the efficacy of **Eucerin® Sun Allergy Protection Cream Gel 15** as “very good”.



**Eucerin® Sun Allergy Protection Cream Gel 15** provides significant protection against polymorphous light eruptions (PLE) and was therefore clearly more effective than sunscreens without the photoprotective antioxidant system with AGR