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EAU THERMALE Avène
LABORATOIRE DERMATOLOGIQUE

Tolerability and efficacy of a dermo-cosmetic product containing *Aquaphilus dolomiae* and *Broussonetia* extracts dedicated to pruritus associated with localized dry skin in atopic infants and children

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Introduction & Objectives

Atopic dermatitis (AD) is the most common chronic inflammatory skin disorder in infants and children. Dry skin and pruritus are the main features of AD. Repeated itchy periods can significantly impact patients' daily life.

We developed a **dermo-cosmetic product** containing two active ingredients, *Aquaphilus dolomiae* and *Broussonetia* extracts, dedicated to pruritus associated with localized dry skin.

We investigated the tolerability and efficacy of the product in infants and children with AD.

Materials & Methods

STUDY DESIGN

Monocentric & open clinical study.

Product applied four times a day on localized dry and pruritic areas of the body and/or face for 22 days.

POPULATION

32 subjects:

- **15 infants** (8 to 11 months)
- **17 children** (3 to 11 years old)

MAIN INCLUSION CRITERIA

- Atopic dermatitis
- At least one localized area with:
  - Xerosis intensity ≥ 2 *(0–3 scale: 0= none, 1= mild, 2= moderate, 3= severe)*
  - Pruritus intensity ≥ 4 for children, ≥ 1 for infants
    (average over the previous 24 hours, Numerical Rating Scale 0–10)

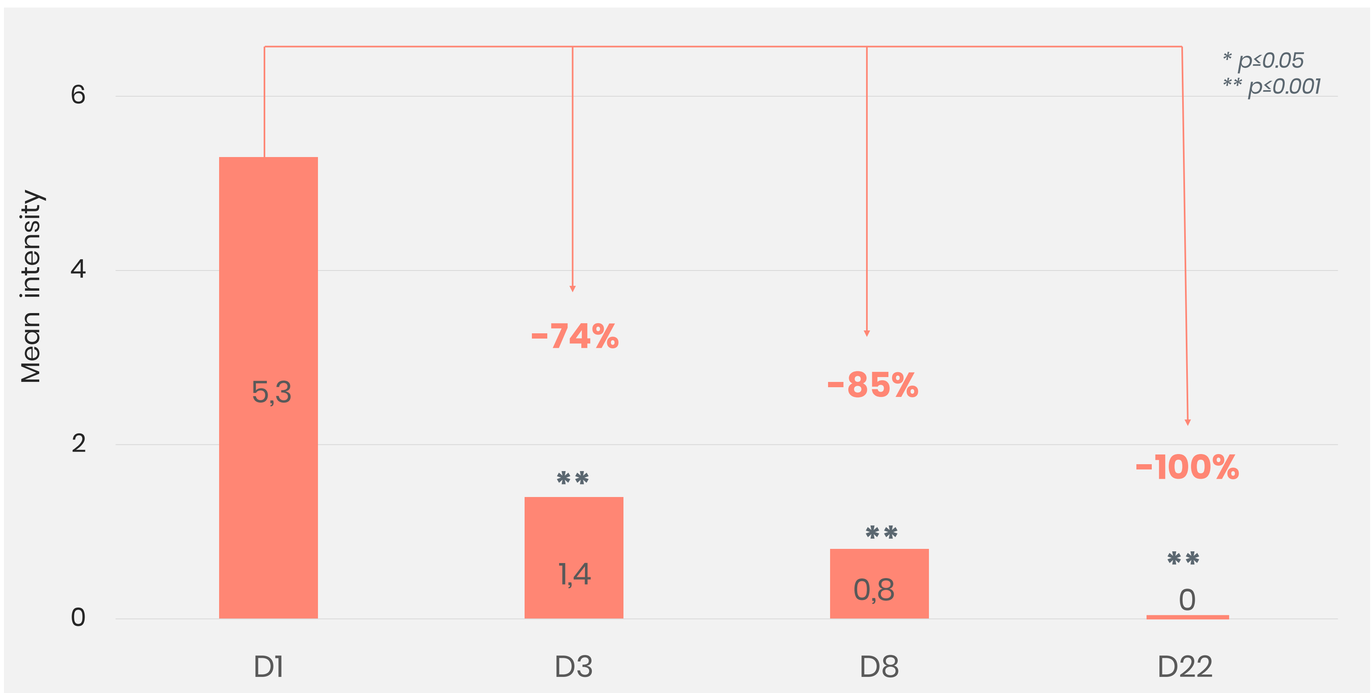
MAIN ASSESSMENTS

- **Pruritus intensity**
- **Xerosis intensity**
- **Local/L-Scorad on a target area**
- **Tolerability**
- **Cosmetic acceptability**
- **Standardized photographs**

Results

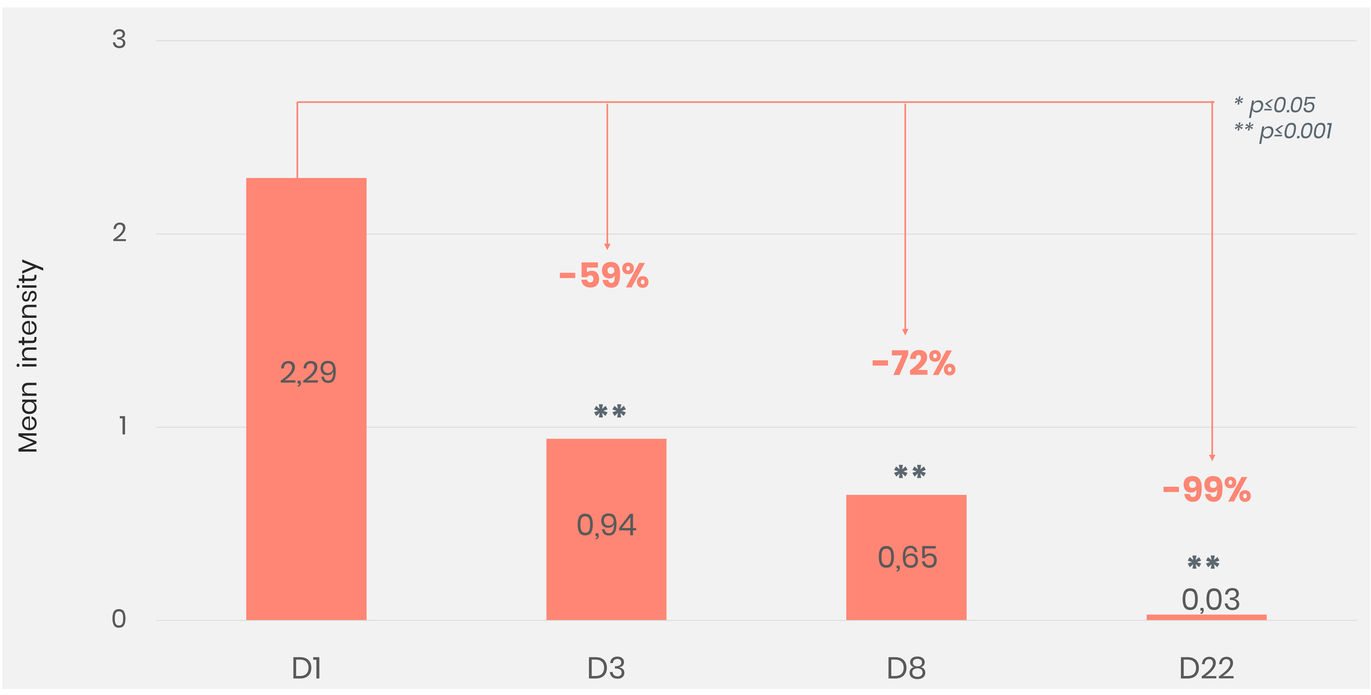
Pruritus intensity *(average over the previous 24 hours, Numerical Rating Scale 0–10)*

Significant improvement of the pruritus intensity at each timepoint.



Xerosis intensity *(score 0 – 3)*

Significant improvement of the xerosis intensity at each timepoint.



Tolerability

Tolerability was assessed as **excellent by the investigators** (dermatologist and pediatrician).

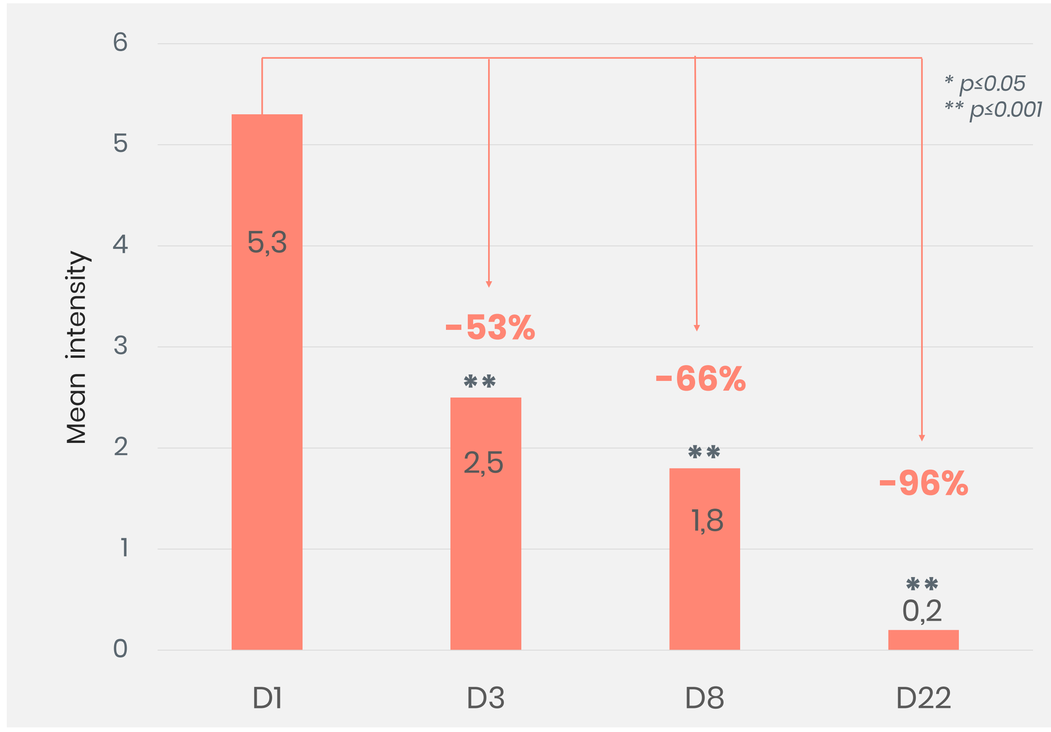
Cosmetic acceptability

The cosmetic acceptability as well as the perceived efficacy on pruritus just after product application **was judged very good.**

Global agreement score: **8.6/10.**

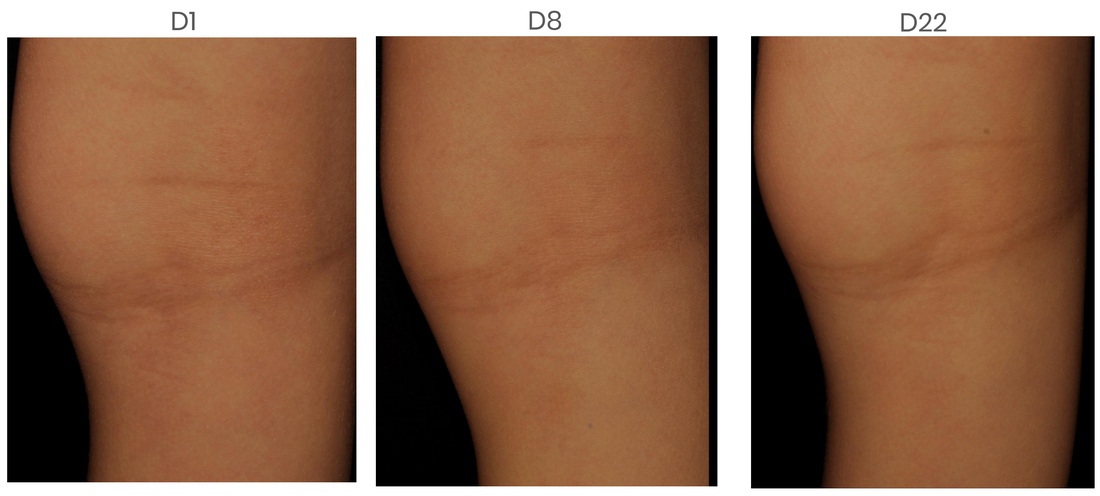
L-SCORAD

Significant improvement of the L-Scorad at each timepoint.



AD severity on a target area **was highly significantly improved** as Local-SCORAD decreased by **-53% at D3**, by **-66% at D8** and by **-96% at D22**.

Standardized photographs



Male child subject, 5 years old, right popliteal fossa, Illustration of a best case.
Photo credits: Laboratoires Dermatologiques Eau Thermale AVENE.

Conclusion

Tolerability and efficacy results as well as the cosmetic acceptability of this dermo-cosmetic product demonstrated its benefit in the prompt relief of significant pruritus associated with dry skin in atopic pediatric population.

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