

Outreach note of the study report 20E5078 SUBLIO

According to the study plan D20-823-1

(Part 2)

Assessment of the efficacy of a product on the improvement of a psoriatic skin on human skin explants *ex vivo*

- Tested products
- **City water (Longjumeau)**
 - **City water (Longjumeau) hyperionised with the Sublio Ionic WaterBox *Pro* system**

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STUDY

This study was subject to a complete and detailed report under the reference 20E5078, returned to SUBLIO France, only owner of these results.

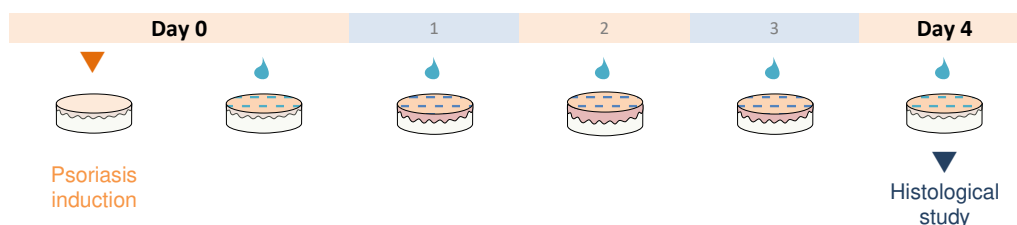
Date of the beginning of the study	2 nd April 2021
Date of the end of the technical phase of the study	24 th May 2021

TESTED PRODUCTS

- P1 Water (Longjumeau city), sterilised by filtration at 0,22 μ m.
- P2 Water (Longjumeau city), sterilised by filtration at 0,22 μ m and hyperionised thanks to the **Sublio Ionic WaterBox Pro** device supplied by the SUBLIO France company.

MATERIALS & METHODS

Refer to study 20E5076 (part 1)



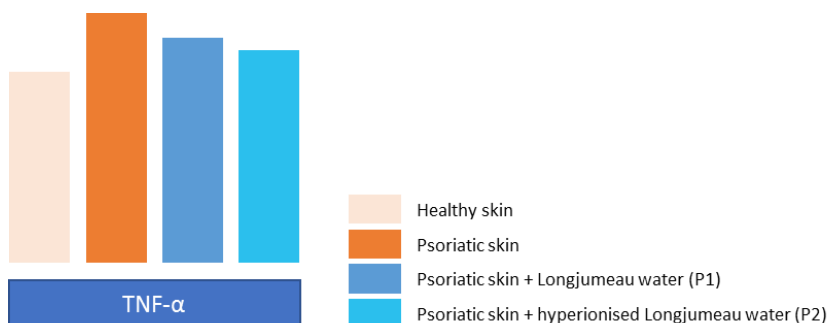
This additional study was conducted to highlight an early parameter of the inflammatory phase characteristic of a psoriatic state: increased production of Tumor Necrosis Factor alpha (TNF- α).

TNF- α is a natural mediator of immunity and a potent inducer of the inflammatory response. It was assayed in the culture medium of the explants.

RESULTS

1. TNF- α cytokine => reflects inflammation

The induction of the psoriatic state leads to a significant increase of TNF- α cytokine production by 24%.



- ➔ The treatment **P1** (Longjumeau water) non-significantly reduces TNF- α linked to the inflammation.
- ➔ The treatment **P2** (hyperionised Longjumeau water) significantly reduces TNF- α linked to inflammation state by 13%.

CONCLUSION

These results show that a daily treatment of 4 days with only 2 microliters of water hyperionised with Sublio Ionic WaterBox *Pro* device per cm², allows to reduce a main marker of inflammatory state of the psoriatic skin.

This completes previous good results (part 1) obtained on three main markers of the psoriatic skin.

