



Research Partnering Services

Our clients and research partners receive a wealth of support from their earliest engagement and can take advantage of our full-spectrum of expertise, including experimental design & execution and an extensive catalog of SOP's to accelerate R&D programs.

We offer a comprehensive range of sample analysis techniques, including histological analysis, RT-qPCR, and complete data analytics including interpretation packages for a wide range of application areas:

- Wound Healing
- Immune Response
- Photobiology
- Claims Substantiation / Efficacy
- Skin Rejuvenation
- Environmental Stress

Ten Bio's unique TenSkin™ culture system allows real human skin to be cultured at physiological tension, which assures a normal and realistic tissue response. This enables evaluation of a broad range of responses over longer durations and more accurately than in other systems, allowing research teams to make more informed decisions at every stage of R&D.

Better decisions drive better results, rapid progress & lower costs. Ask us about:

- State-of-the-art ex vivo capabilities
- Industry-leading technology with end-to-end services
- Expert team to assist with study design
- Cost effective R&D solutions



Ten Bio Ltd
30-34 Reform St
Dundee DD1 1RJ, UK
+44 (0)7428 438184
michael.conneely@ten-bio.com

Ten Bio Technologies Inc
150 N Research Campus Dr
Kannapolis, NC 28081
+1 (704) 345-9158
robyn.hickerson@ten-bio.com



Transforming skin research with our advanced ex vivo human skin models

www.ten-bio.com

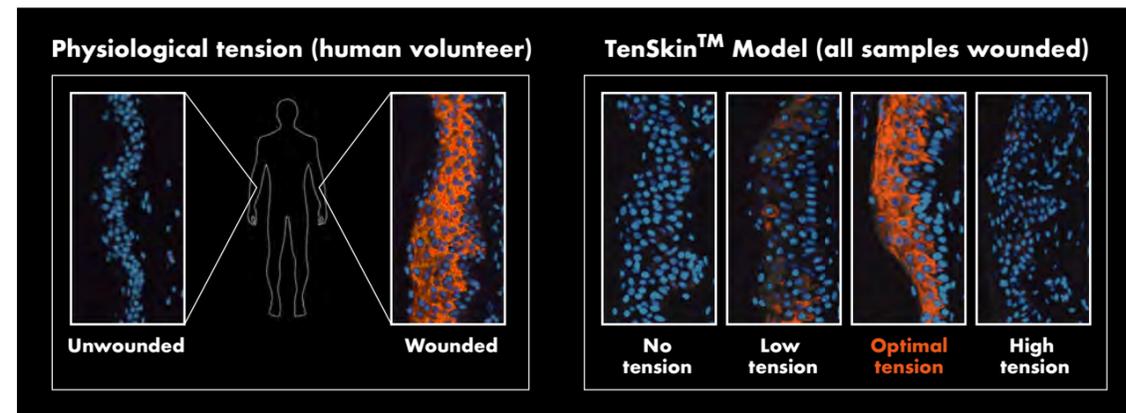
What is TenSkin™?

TenSkin™ is full thickness human skin cultured at optimal tension, which enables the model to mimic skin's innate behaviour in vivo and maintain tissue viability for extended periods – up to 14 days.

By restoring skin's inherent mechanobiology, our unique culture system retains skin's physiological complexity, metabolic activity, and structural integrity.

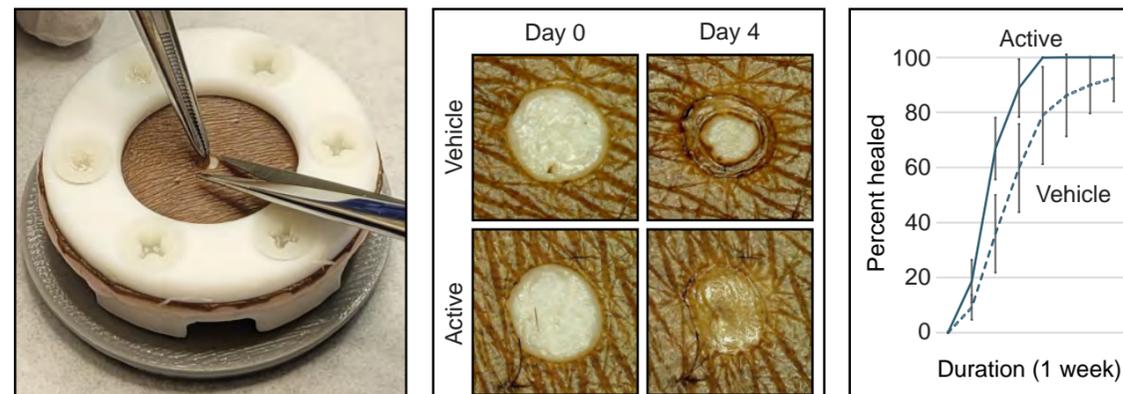


Importance of tension



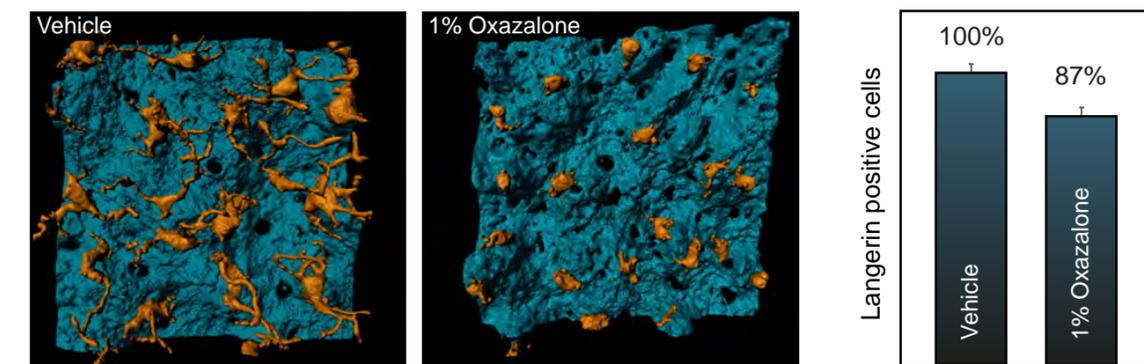
Optimal mechanical tension allows TenSkin™ to mimic complex biological processes (e.g., response to wounding). The figure above illustrates virtually identical expression levels of wound healing proteins in TenSkin™ (keratin 17 shown in orange) when directly compared to the wounded skin of a human volunteer.

Wound healing



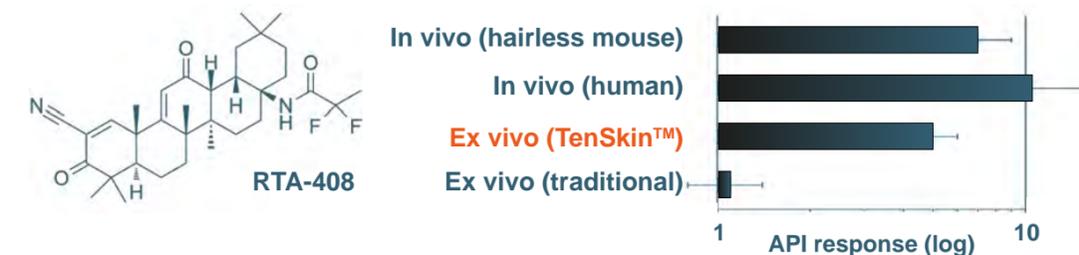
TenSkin™ facilitates the investigation of all stages of wound healing, including initial wound response, inflammation, wound contraction, re-epithelialisation, and barrier formation. Superficial biopsy (2 mm) completely heals in 4-5 days.

Immunocompetent model



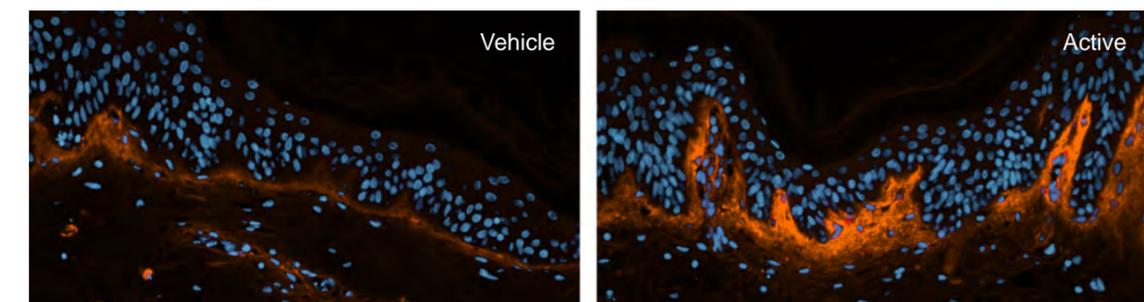
Compared to traditional models, the intact mechanobiology of TenSkin™ maintains the skin's resident immune cells, allowing in-depth assessments of immune response. Ten Bio's advanced imaging capabilities clearly show Langerhans cells (orange; shown against the basement membrane in blue) mature and migrate in response to a contact allergen (oxazolone).

Efficacy - measure predictive API activity



Our products and research services help generate exacting and clinically-relevant data to more accurately predict product performance in vivo. TenSkin™ treated with RTA-408 (an NRF2 activator) exhibited a biological response similar to in vivo data, while traditional ex vivo models (cultured without tension) showed little response.

Rejuvenation studies



With extended culture periods beyond 2 weeks, TenSkin™ is ideally suited for evaluating dermal remodeling (e.g., inhibition of collagen breakdown and stimulation of collagen synthesis). Increased procollagen 1 (orange) is observed here 14 days following topical treatment.