

Human Skin Assays

Drug Discovery Assays using Full-Thickness, Living Human Skin

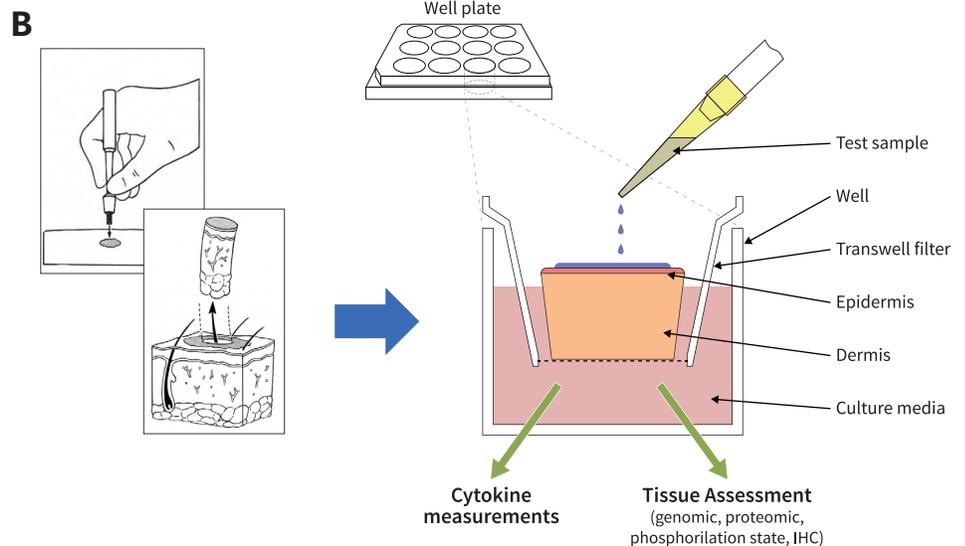
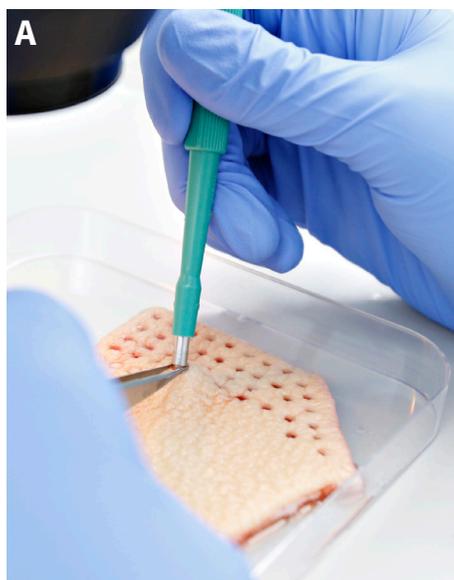
Skin disease is one of the leading causes of global disease burden

Around 60% of people in the UK have suffered with a skin disease at some point during their lifetime. Aging, genetic factors, and trauma can result in the development of a diverse range of skin diseases. Currently there are over 3000 skin conditions documented, including Psoriasis, Atopic Dermatitis and Infection.

To stem the growth of skin disease globally, determining the cause of disease and developing effective treatments are key — to assist in this mission, REPROCELL have developed a range of skin disease assays using fresh human skin from living patients.

Our dedicated operations and laboratory team work together to fulfil your skin research needs

Once living human skin arrives at our Beltsville laboratory, REPROCELL's skilled R&D team create punch biopsies from these tissues. The resultant fresh tissue dissections are viable up to seven days post-resection, where they can be used to assess your test agents.



(A.) Fresh human skin is sourced directly from the patient via our industry-leading network of biorepositories.

(B.) These fresh tissue dissections are viable up to 7 days and can be used to assess your test agents on various endpoints.

At REPROCELL, we have developed a range of assays using healthy and diseased human skin



We can source disease human skin from patients affected by various skin conditions including psoriasis and atopic dermatitis. These valuable tissues provide a translational model with the ability to answer many drug discovery questions.

Depending on your research needs, we also offer skin assays that mirror the inflammatory profile of common skin conditions. These assays, developed by our dedicated R&D team, are ideal for assessing the anti-inflammatory properties of your test agents.

Inflammatory Assay

- Assesses the anti-inflammatory properties of test compounds *in vitro*
- Evaluates up to 20 different conditions per donor

Psoriasis Assay

- Mirrors the activated Th17 pathway associated with the disease
- Allows for topical or systemic administration of compounds

AD Assay

- Mirrors the activated Th2 pathway associated with the disease.
- Allows for topical or systemic administration of compounds

Our Clients' Results Speak for Themselves

“[REPROCELL] Biopta’s human tissue services have played a critical part in our compound selection . . . At our last round of funding, the investors were reassured by the presence of functional data on living human tissues.”

— President & Head of R&D, Canadian Biotech

For an example of a recent client-led project please make an inquiry.

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