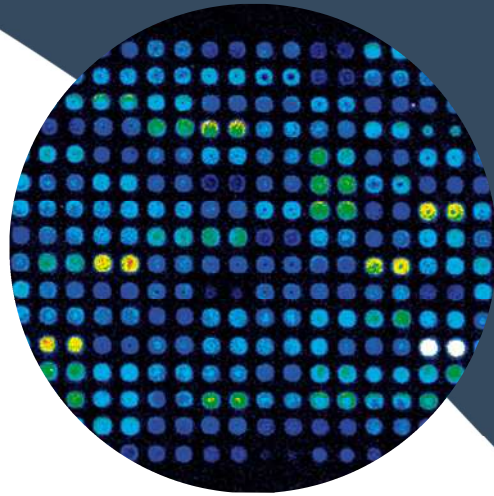


IN VITRO & EX VIVO TESTING



stratiCell
Testing & Beyond

Whole Transcriptome Analysis

Full genome expression profiling

Whole transcriptome analysis is based on the use of DNA microarrays to monitor the gene expression patterns induced by an active ingredient on the entire genome. By sorting the data with its unique and proprietary database, known as the *StratiCELL Skin Knowledge Database* (SSKDB), StratiCELL directly correlates gene expression patterns to expected dermo-cosmetic benefits.

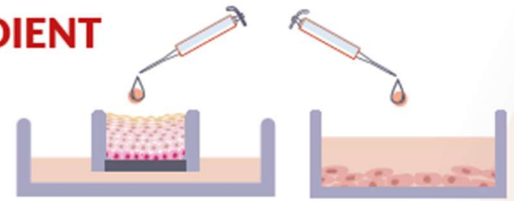
StratiCELL 's whole transcriptome analysis service accelerates the biological efficacy screening of innovative active ingredients, and provides a complete insight into its molecular mechanisms of action on skin cells.



Methodology

CHALLENGE YOUR INGREDIENT

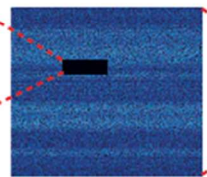
2D monolayer cell cultures or 3D reconstructed epidermis are treated with your ingredient, and total RNA is isolated for hybridization on a full transcriptome DNA microarray (Affymetrix GeneChip®).



TOTAL RNA ISOLATION



REVEAL ITS IMPACT

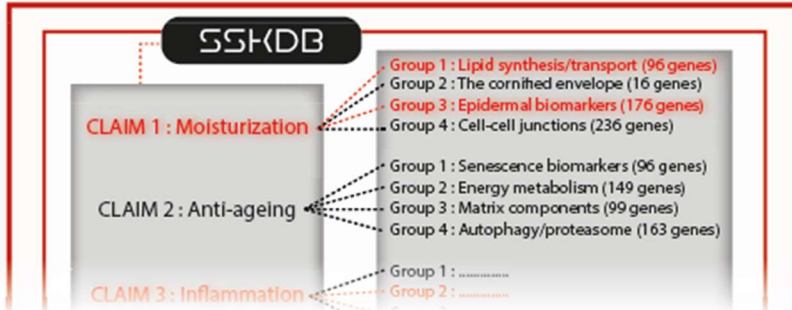


DNA MICROARRAY HYBRIDIZATION

Total Biotinylated cDNA



DNA microarray is a powerful tool to define the expression levels of thousands of genes. However, it generates a huge set of data to be analysed. Databases are required to integrate scientific insights from DNA microarray. StratiCELL offers its proprietary **StratiCELL Skin Knowledge Data Base (SSKDB)** that assigns more than 3,500 genes to 50 biological skin-related topics, like pigmentation, inflammation, stress response, and much more.



CONFIRM ITS EFFICACY

Deepen your results and confirm the efficacy of your ingredient by using additional 2D and 3D skin models and functional assays by **StratiCELL**.

