



PKDERM is an independent French contract research organisation. We measure the efficacy and safety of your products on human tissue, without animal testing. The same compound can be followed from 2D cultures, through 3D reconstructed models, to ex vivo human skin and human lung slices.

SERVICES

Efficacy

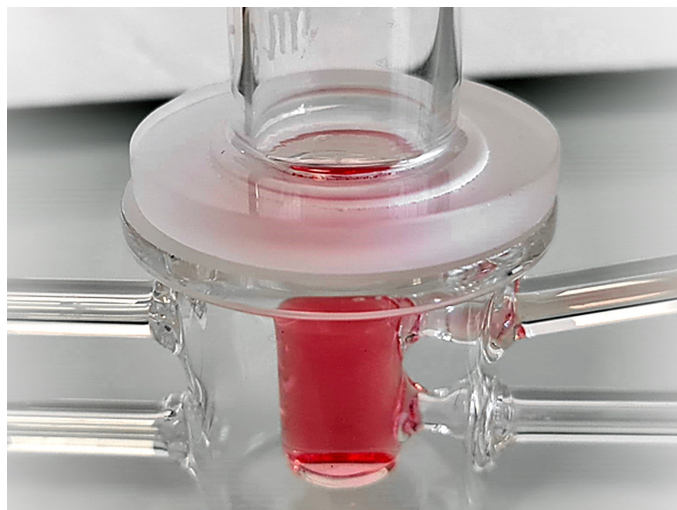
Skin penetration and dermal PK (IVPT) · inflammation · pigmentation · wound healing · anti-aging and barrier repair · pulmonary fibrosis and airway inflammation

Safety

Dermal absorption · skin and eye irritation · cytotoxicity · sensitisation · phototoxicity · genotoxicity

Beyond studies

Scientific consultancy and hands-on training.



Human skin mounted on a Franz-type diffusion cell.

BIOLOGICAL MODELS

Skin

Excised human skin, reconstructed 3D epidermis and full-thickness models, 2D primary cells

Lung

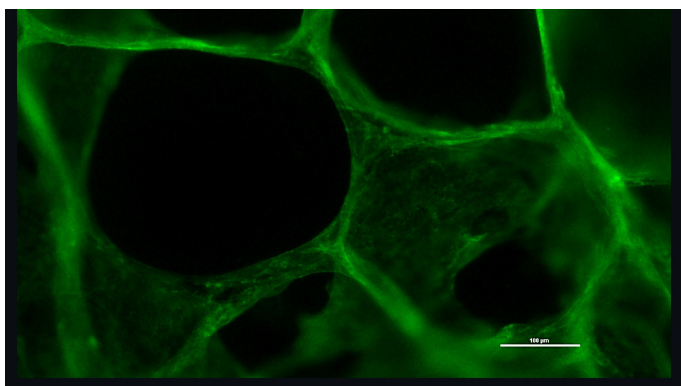
Precision-cut lung slices, primary fibroblasts, Calu-3, reconstructed airway epithelium

Mucosa

Reconstructed vaginal-ectocervical tissue

Other organs

2D and 3D hepatocytes (liver) · Caco-2 (gut)



Human precision-cut lung slice, viable at Day 28 (calcein, green).

TWO ORGANS, ONE PROVIDER

Skin and lung studies can run inside the same programme, on the same compound, with the same team and the same reporting format. Few contract research organisations of our size cover both.

READOUTS AND TECHNIQUES

Molecular

RT-qPCR · whole-transcriptome RNA-Seq

Imaging

Histology · immunofluorescence · IHC · live-cell imaging

Quantification

ELISA and multiplex · LC-MS/MS · liquid scintillation counting

WHY PKDERM

Animal-free by design. More than 20 years of expertise. Two European patents. Over 30 peer-reviewed publications, a dozen of them since PKDERM was created in 2018. Protocols and acceptance criteria are agreed with you before a study starts, and reports are written for your regulatory or claim file.