



# Compound testing services IN MATRICO® Liver Fibrosis Assay

Fibrotic liver ECM is an integral component of liver fibrosis. Current liver fibrosis modeling and compound testing platforms do not incorporate liver ECM, and therefore lack a defining part of the fibrotic environment. Utilizing 3D human liver ECM technology, Xylyx Bio offers compound testing services IN MATRICO® for physiologically-relevant testing predictive of human disease biology.

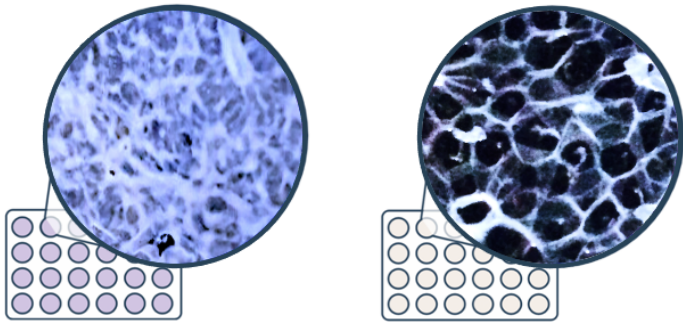
## Advantages

- Recapitulates human liver fibrosis in vitro
- Utilizes primary human fibrotic liver ECM
- Compound testing in a disease-relevant environment
- Informed by relevant [clinical pathology data](#)

## Human liver ECM platform for compound testing

Normal Liver ECM Scaffolds

Fibrotic Liver ECM Scaffolds



IN MATRICO® LIVER Fibrosis Assay plates

## IN MATRICO® Liver Fibrosis Assay

Liver fibrosis assays utilizing 3D human liver TissueSpec® ECM technology for disease-relevant testing.

Standard offering includes 3 IN MATRICO® Fibrosis Assays:

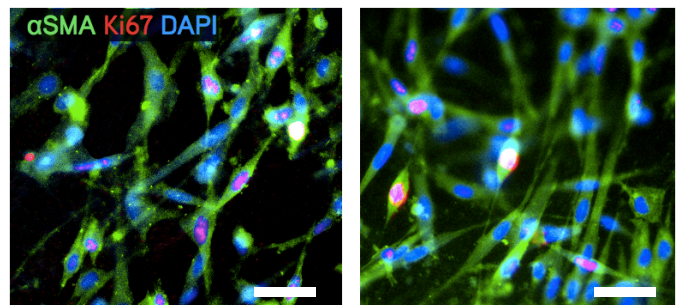
- Viability
- Gene expression
- Protein secretion

## Fibrotic phenotype of hepatic stellate cells in human liver ECMs

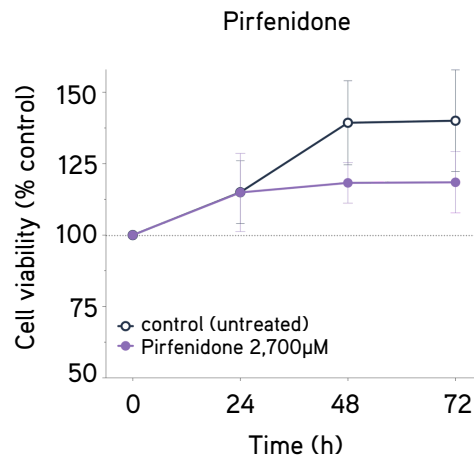
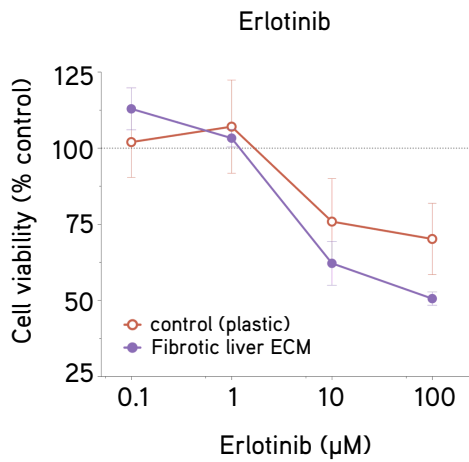
Fibrotic TissueSpec® Liver ECM supports fibrotic phenotype of activated primary hepatic stellate cells. Scale bar: 25  $\mu$ m.

Normal Liver ECM

Fibrotic Liver ECM

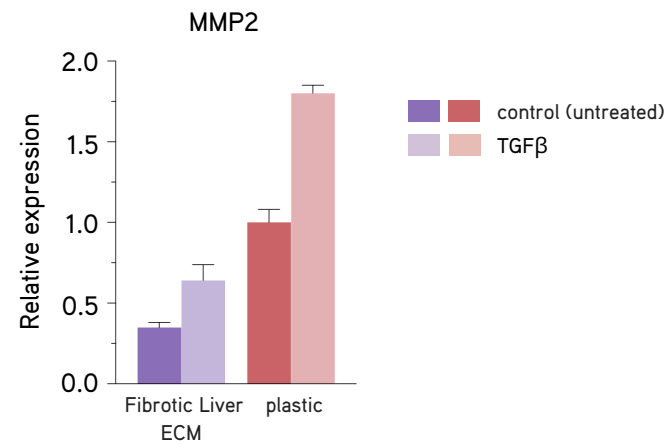
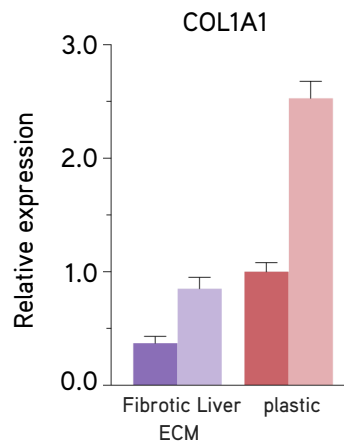
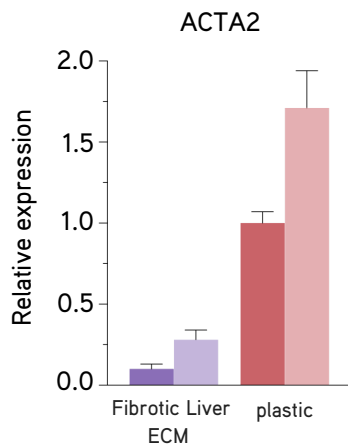


## Viability assay



IN MATRICO® Liver Fibrosis Assay utilizing Fibrotic TissueSpec® Liver ECM enables predictive drug testing. Primary hepatic stellate cells in liver ECMs treated with reference compounds show concentration-dependent reduction in viability.

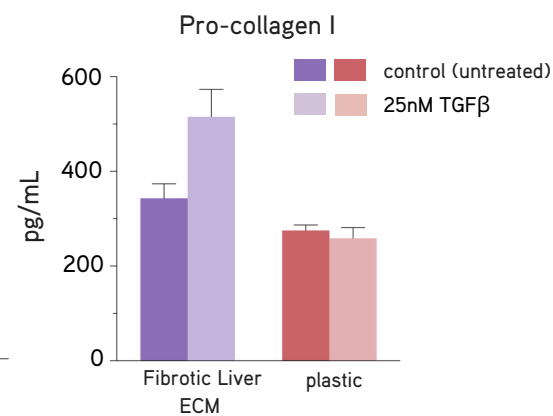
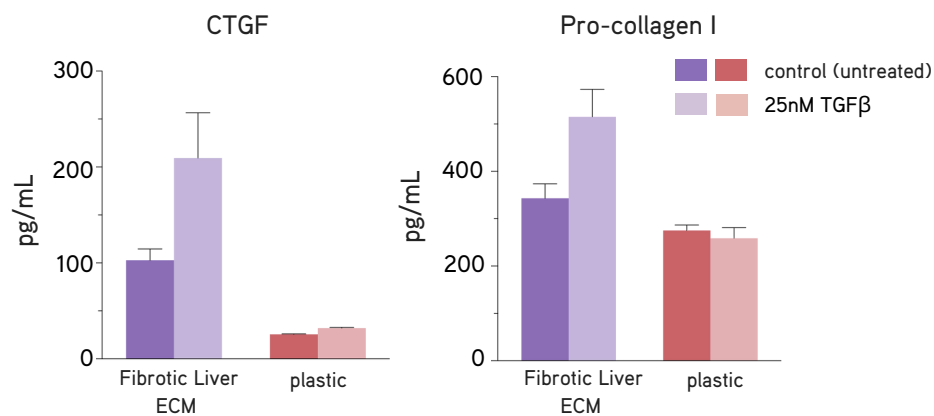
## Gene expression assay



IN MATRICO® Liver Fibrosis Assay provides a human fibrotic liver ECM microenvironment. Changes in relative expression of fibrosis associated genes are consistent with expected response of primary hepatic stellate cells in Fibrotic Liver ECM, unlike in plastic.

## Protein secretion assay

In Fibrotic Liver ECM, primary hepatic stellate cells show robust response to TGFβ in fibrosis associated secreted factors, such as CTGF and Pro-collagen I, consistent with fibrotic disease phenotype.



## Custom assay development

Our assay services team will work closely with you to develop and implement a bespoke assay package customized to your research needs.

For partnering opportunities, contact us today at [info@xylyxbio.com](mailto:info@xylyxbio.com)