

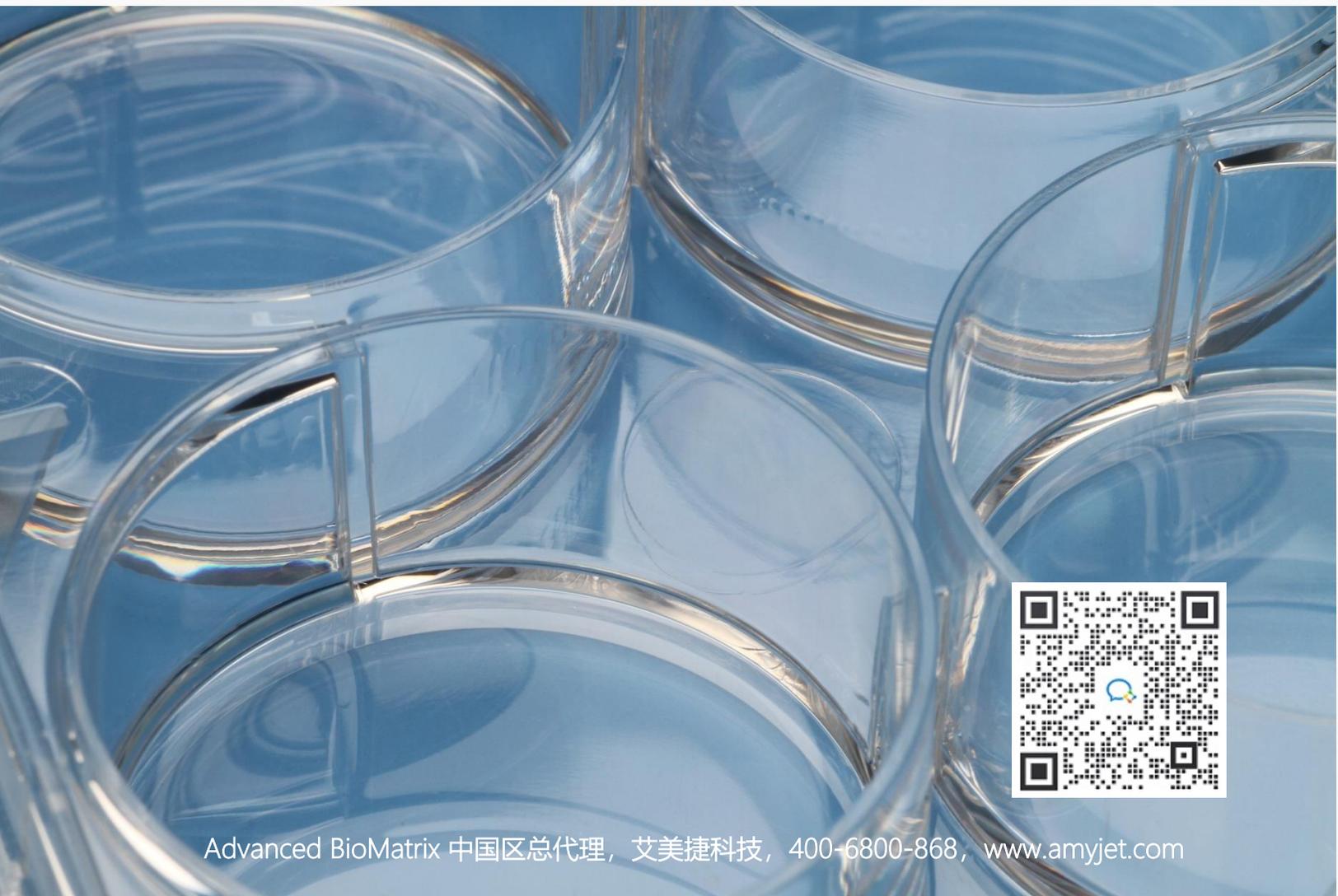
**ADVANCED
BIOMATRIX** 
A BICO COMPANY



AmyJet Scientific
艾美捷科技

CytoSoft®

让细胞像在体内那样温和天然的生长



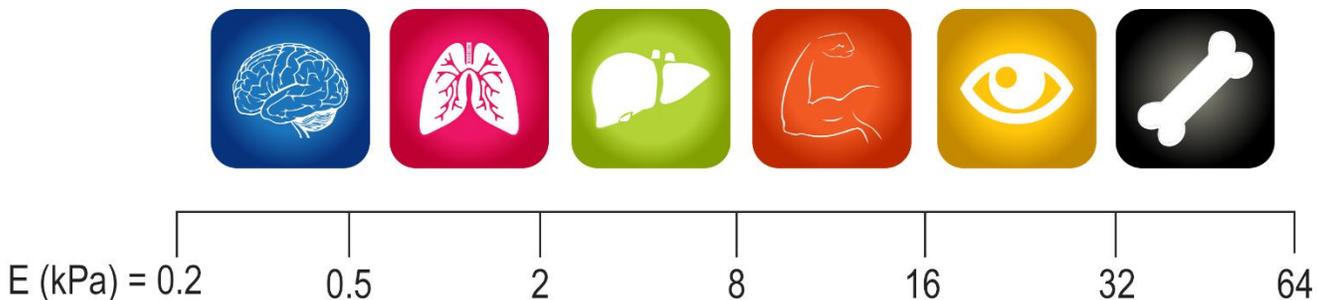
遥遥领先，专利技术

机械转导是指细胞通过将机械刺激转化为生物化学信号来感知和响应机械刺激的过程，从而引发特定的细胞反应。例如，将细胞培养在更硬的基质上会改变人类间充质干细胞的分化潜力，有利于骨形成而不是软骨和脂肪组织。

CytoSoft®板具有一层厚度较薄的功能化硅胶，硬度在0.2-64千帕之间，使您能够在生理相关的基质上培养细胞。

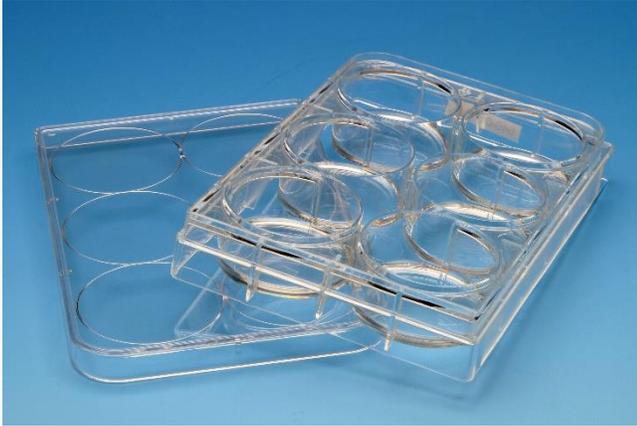
Why CytoSoft®?

- 身体各个部位的基质硬度差异显著（例如，脑组织约为0.2kPa，软骨大于64kPa）。
- 塑料和玻璃的硬度比生理组织高出100,000倍。
- 在体内硬度上培养细胞有助于产生类似体内的结果。
- 基质硬度影响传播、基因表达、形态、多能性、迁移、分化和谱系特异性。



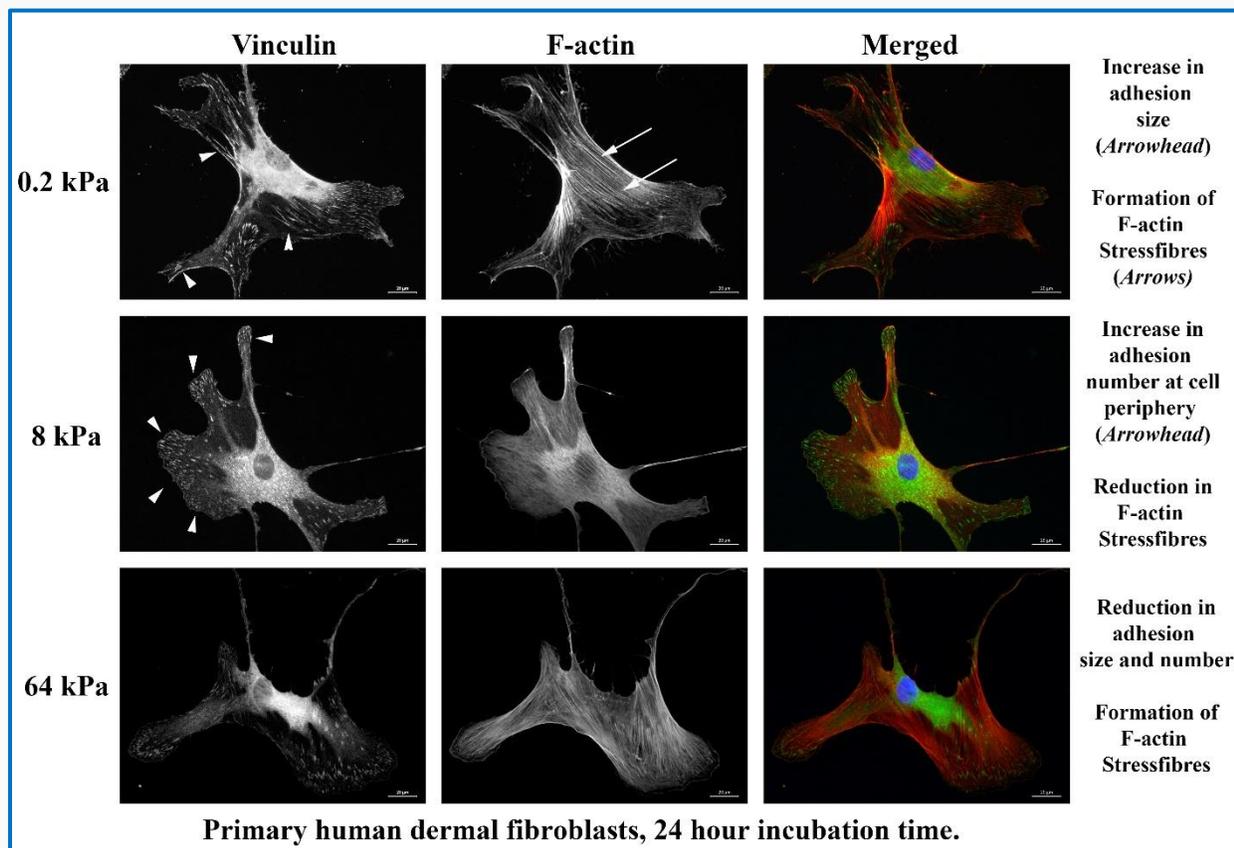
步骤1: CytoSoft®探索套装

发现最佳基质硬度



CytoSoft®探索套装包含7个6孔板的套装, 涵盖整个生理硬度范围, 包括0.2、0.5、2、8、16、32和64 kPa.

- 在一个实验中跨整个范围播种细胞。
- 注意下方所见细胞的差异。



如上所示, 初级人类真皮成纤维细胞在0.2、8和64 kPa的CytoSoft®板上培养。在0.2kPa和64kPa上生长的成纤维细胞经历了高水平的F-肌动蛋白应力纤维。在8kPa上生长的成纤维细胞具有增加的粘附位点和减少的应力纤维。

汰考2 > CytoSoft® 6字格技T-25/T-75耐胞基洗相

0 都乙汰突粗技零枢耐胞基洗/耐胞拆墨



- 购买单个硬度的6孔板或T-25/T-75细胞培养瓶
- 在更窄的硬度范围内进一步识别细胞行为
- 从塑料板上的长期细胞培养过渡到CytoSoft®板和T-瓶上的细胞培养

以下细胞已在CytoSoft®板上培养

Adipose-Derived Stem Cell - 脂肪来源干细胞

Astrocyte - 星形胶质细胞

Fibroblast - 成纤维细胞

HeLa

HUVEC - 静脉内皮细胞

Cardiac fibroblast Mesenchymal Stem

Cell - 心脏成纤维细胞间充质干细胞

MDCK - 犬肾细胞系

Myocyte - 肌细胞

Neural Stem Cell - 神经干细胞

Glial cell - 胶质细胞

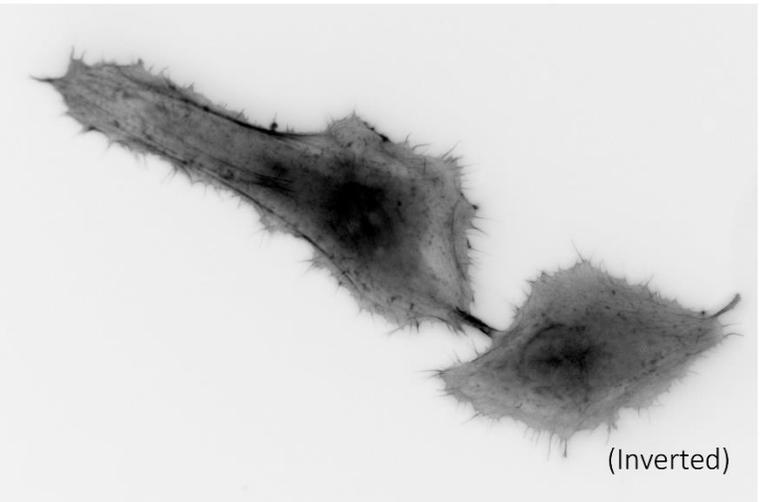
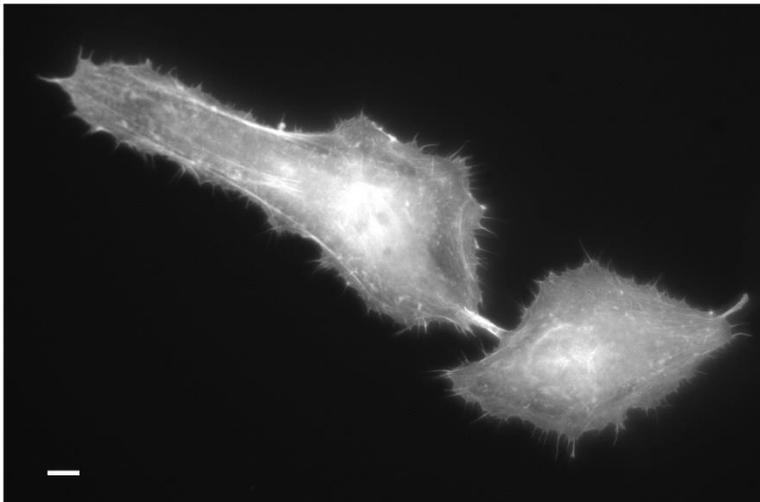
Cardiomyocyte Longitudinal

Smooth Muscle - 心肌细胞纵向平滑肌细胞

汰耄3 > CytoSoft®找僧格 享切遣症、击甘轮闸圆僧



- #1.5玻璃基底
- 更薄的硅胶层
- 24 and 96-well 板
- 获取高分辨率图像



Live HeLa cells expressing fluorescent marker F-actin (lifeact-GFP). 60X 1.4NA oil objective. Scale bar 10 microns
These images were taken on an 8 kpa *CytoSoft® Imaging* plate to demonstrate high resolution imaging capability

放弃塑料培养皿， 立即体验CytoSoft®上培养细胞

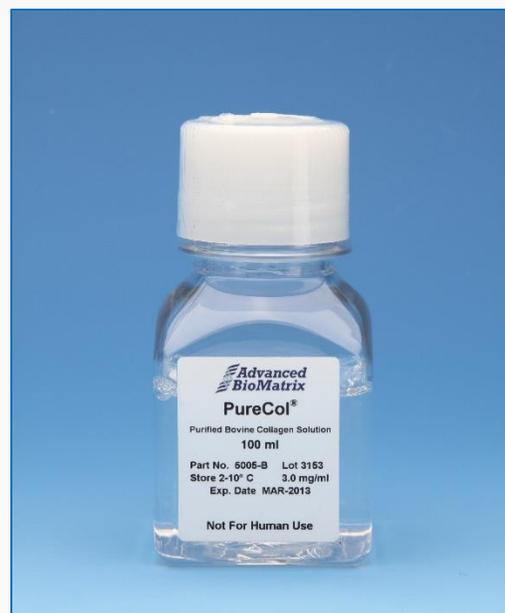
Product	Catalog #	Product	Catalog #
CytoSoft® Discovery Kit	#5190-7EA		
CytoSoft® 6-well Plate, 0.2 kPa	#5165-5EA	CytoSoft® T-25 Flask, 0.2 kPa	#5316-10EA
CytoSoft® 6-well Plate, 0.5 kPa	#5140-5EA	CytoSoft® T-25 Flask, 0.5 kPa	#5317-10EA
CytoSoft® 6-well Plate, 2 kPa	#5141-5EA	CytoSoft® T-25 Flask, 2 kPa	#5318-10EA
CytoSoft® 6-well Plate, 8 kPa	#5142-5EA	CytoSoft® T-25 Flask, 8 kPa	#5319-10EA
CytoSoft® 6-well Plate, 16 kPa	#5143-5EA	CytoSoft® T-25 Flask, 16 kPa	#5320-10EA
CytoSoft® 6-well Plate, 32 kPa	#5144-5EA	CytoSoft® T-25 Flask, 32 kPa	#5321-10EA
CytoSoft® 6-well Plate, 64 kPa	#5145-5EA	CytoSoft® T-25 Flask, 64 kPa	#5322-10EA
CytoSoft® Imaging 24-well Plate, 0.2 kPa	#5183-1EA	CytoSoft® T-75 Flask, 0.2 kPa	#5323-6EA
CytoSoft® Imaging 24-well Plate, 0.5 kPa	#5184-1EA	CytoSoft® T-75 Flask, 0.5 kPa	#5324-6EA
CytoSoft® Imaging 24-well Plate, 2 kPa	#5185-1EA	CytoSoft® T-75 Flask, 2 kPa	#5325-6EA
CytoSoft® Imaging 24-well Plate, 8 kPa	#5186-1EA	CytoSoft® T-75 Flask, 8 kPa	#5326-6EA
CytoSoft® Imaging 24-well Plate, 16 kPa	#5187-1EA	CytoSoft® T-75 Flask, 16 kPa	#5327-6EA
CytoSoft® Imaging 24-well Plate, 32 kPa	#5188-1EA	CytoSoft® T-75 Flask, 32 kPa	#5328-6EA
CytoSoft® Imaging 24-well Plate, 64 kPa	#5189-1EA	CytoSoft® T-75 Flask, 64 kPa	#5329-6EA
CytoSoft® Imaging 96-well Plate, 0.2 kPa	#5255-1EA		
CytoSoft® Imaging 96-well Plate, 0.5 kPa	#5256-1EA		
CytoSoft® Imaging 96-well Plate, 2 kPa	#5257-1EA		
CytoSoft® Imaging 96-well Plate, 8 kPa	#5258-1EA		
CytoSoft® Imaging 96-well Plate, 16 kPa	#5259-1EA		
CytoSoft® Imaging 96-well Plate, 32 kPa	#5260-1EA		
CytoSoft® Imaging 96-well Plate, 64 kPa	#5261-1EA		



CytoSoft®板需要外细胞基质涂层以促进细胞附着。 以下是我们推荐的基质

PureCol® I型胶原蛋白
#5005-100ML 是用于涂覆
CytoSoft®板最广泛使用的细胞外
基质。

- >99.9% 纯度
- 被引用在2000多篇出
版物中
- 批次间一致性



Type III Human Collagen Solution, 10 mg

#5021-10MG

Type IV Human Collagen, Lyophilized, 5 mg

#5022-5MG

Fibronectin, Human, Lyophilized, 5 mg

#5080-5MG

Vitronectin, Human, Solution, 0.1 mg

#5051-0.1MG



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