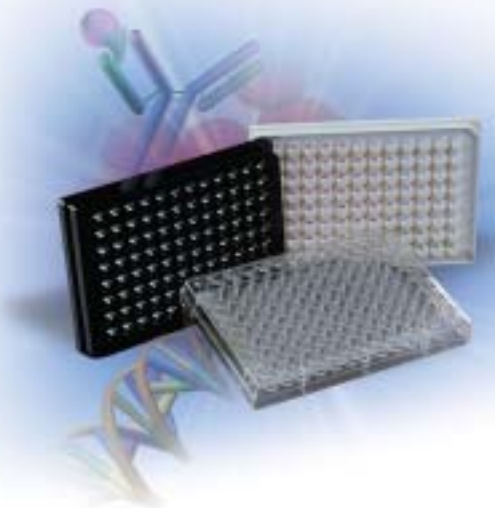
SigmaScreen™
Collagen I Coated Plates

Unrivaled consistency, adhesion and growth capacity for your cell-based assays



Expanding your options for cell-based high-throughput screening, Sigma's Collagen I coated plates join our Poly-D-Lysine to bring to you more ways to get the maximum cell attachment, survival and differentiation.

The SigmaScreen Collagen I product line of 96- and 384-well coated plates, available in a variety of colors for different assay detection formats and minimal cross-talk, has been optimized for high-throughput screening. Developed to meet proposed Society of Biomolecular Screening microplate specifications,* SigmaScreen Collagen I Coated Plates excel in applications such as calcium flux assays, cell proliferation, gene reporter and apoptosis assays as well as cell adhesion kinetic studies.

- **Increased cell proliferation with serum-free media**
  Whether your cells are cultured with serum or in serum-free media, Sigma's Collagen I Coated Plates offer a superior support for cell adhesion and proliferation over standard tissue culture treated plates or competitor's Collagen I coated plates.
- **Compatible with many common cell-types**
  Endothelial, epithelial, hepatocytes, and muscle cells as well as transfected lines such as HEK 293, BHK, L929 and HT1080. For additional cell lines visit sigma-aldrich.com/hts.
- **Consistent quality and testing**
  Proprietary coating process manufactured under ISO9002 in our GMP facility delivers high well-to-well and plate-to-plate consistency making SigmaScreen Coated Plates the new standard in high-throughput screening. Each lot of Collagen I coated plates has been tested for cell attachment performance in serum free media using HT1080 cells. Each lot is also tested for endotoxins, bacteria and fungi.
- **Flexibility in your assay detection**
  *Offering a variety of 96- and 384-well Corning® base plates designed and validated with all commercial microplate readers and robotic systems in compliance with proposed Society of Biomolecular Screening microplate specifications.**
- **Stable at cooler or room temperatures for added storage convenience**
- **Custom options**
  Special requirements? No problem. Sigma also offers custom coating and packaging options manufactured under our same high-quality ISO9002, GMP facility guidelines. For additional information on our custom capabilities contact us at hts@sial.com and let us know your interests.

** For additional information on SBS microplate standards visit sbsonline.org*

availability, ordering & tracking
sigma-aldrich.com
scientific tools, products & information

SIGMA®

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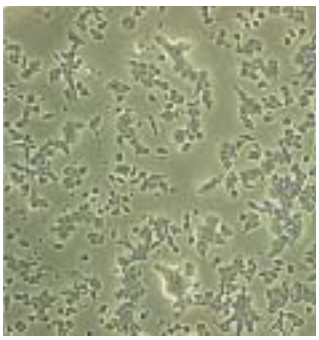
SigmaScreen™ Collagen I Coated Plates

Superior Cell Adhesion and Proliferation

SIGMAScreen Collagen I

Competitor B

Competitor P



TCT

Figure 1: *HT1080 cells were seeded in clear 96-well Collagen I Coated Plates (3 x 10^5 cells/ml, 100 µl/well). Cells were incubated for 24 hours in serum-free DME medium (D 5671), and washed two times with PBS (P 3813). Photographs were taken at 100X. Results show SigmaScreen coated plates demonstrate increased viability and improved cell morphology.*

Multiple Temperature Stability with SigmaScreen Coated Plates

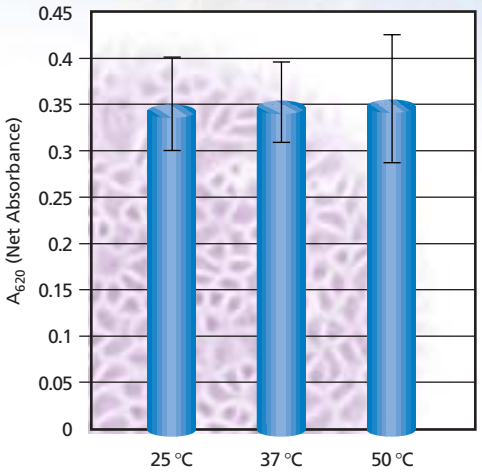


Figure 2: *Clear 96-well Collagen I Coated Plates were incubated for two months at 25 °C, 37 °C, and 50 °C. HT1080 cells were seeded in the wells (2.0 x 10^5 cells/ml,100 µl/well), and incubated for 24 hours in serum-free DME medium (D 5671). The plates were washed three times with PBS (P 3813) and lysed with CelLytic™ M Mammalian Cell Lysis/Extraction Reagent (C 2978). The total cellular protein attached to the plates was quantitated using Bradford Reagent (B 6919), and plates were read in a Wallac Victor plate reader at 620 nm.*

Additional Plate Coatings

Poly D-Lysine	ExtrAvidin
Streptavidin	Anti-FLAG™ M2
HIS-Select™ High Capacity	HIS-Select™ High Sensitivity

Product Specifications

Specification	96-Well Coated Plates	384-Well Coated Plates
Plate and lid composition	Tissue culture polystyrene	Tissue culture polystyrene
Lid	Yes	Yes
Well configuration	Flat bottom/round	Flat bottom/square
Well width	6.4 mm	2.8 mm
Well depth	11 mm	11 mm
Maximum recommended working volume, per well	250 µl	75 µl
Growth area, per well	32 mm^2	8 mm^2
Coating coefficient of variability, well-to-well	≤ 10%	≤ 10%

Ordering Information

Product Number	Description	Package Size
S 3690	SigmaScreen Collagen I Coated Plates, 384-well black	5 each
		10 x 5 each
S 3190	SigmaScreen Collagen I Coated Plates, 96-well black	5 each
		10 x 5 each
S 3440	SigmaScreen Collagen I Coated Plates, 384-well clear	5 each
		10 x 5 each
S 8813	SigmaScreen Collagen I Coated Plates, 96-well clear	5 each
		10 x 5 each
S 3565	SigmaScreen Collagen I Coated Plates, 384-well white	5 each
		10 x 5 each
S 3315	SigmaScreen Collagen I Coated Plates, 96-well white	5 each
		10 x 5 each

All plate formats are clear bottom and include lids.

For further information on our growing line of HTS products, visit us at sigma-aldrich.com/hts

To Order Call: 1-800-325-3010

Technical Service: 1-800-325-5832

SIGMA®