



3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-521-8956 • (314) 771-5765
Fax 800-325-5052 • (314) 771-5757
sigma-aldrich.com

Product Information

SIGMA Screen™

Poly-D-Lysine Coated Multiwell Plates

Product Codes:

M 3555	96 well; Clear/Clear bottom
S 7436	384 well; Clear/Clear bottom
M 5682	96 well; White/Clear bottom
S 7561	384 well; White/Clear bottom
M 5307	96 well; Black/Clear bottom
S 7686	384 well; Black/Clear bottom

Storage temperature 2-8 °C

Product Description

Poly-D-lysine (PDL) coated polystyrene multiwell plates are coated with a 70 to 150 kDa PDL polymer via a proprietary method. This polymer creates a uniform net positive charge on the plastic surface, which can enhance cell attachment, growth, and differentiation. In addition, this product can foster increased survival under serum-free and low serum conditions for certain cell types.^{1,4}

Each lot of Poly-D-Lysine coated plates has been tested for cell attachment performance in serum-free media using BHK-21 adherent cells. Each lot is also tested for the presence of endotoxins, bacteria and fungi.

Numerous cell lines have been cultured successfully on PDL coated surfaces, including the following:

- | | |
|-------------------------------------|-----------------------------|
| • HEK-293 | • Cortical neurons |
| • Mouse 3T3 fibroblasts | • DRG (dorsal root ganglia) |
| • L929 | • Neocortical cells |
| • NIH3T3 | • Spinal cord neurons |
| • PC12 | • Hippocampal neurons |
| • Chicken chondrocytes | • Cerebellar granule cells |
| • Transgenic mouse Q5B and Y8 cells | • GH3 pituitary tumor cells |
| • Mouse pituitary cells | • SF 21 Insect cells |
| • Ovarian tumor cells | • Mouse GT1-7 cells |

Precautions and Disclaimer

For Research Use Only, not for use in diagnostic procedures.

Storage/Stability

For optimal performance, the unopened product should be stored in a dry place at 2–8 °C. Under these storage conditions, the product is stable for two years. For short-term storage of less than 3 months, the product may be stored at room temperature. Once opened, it is suggested that the product be used immediately.

Not recommended for assays at >60 °C.

References

1. McKeehan, W.L., and Ham, R.G., J. Cell Biol., **71**, 727-734, (1976).
2. Freshney, R. I., Culture of Animal Cells, 3rd ed., Wiley-Liss Inc., New York, 1994.
3. Doyle, A., Griffiths, J.B. and Newell, D.G. eds, Cell & Tissue Culture Laboratory Procedures, Wiley, New York, 1998.
4. Mazia, D., et. al, J. Cell Biol., **66**, 198, (1975).

AKS/AAP 07/02

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.