

Product Information

SigmaScreen[®] Poly-D-Lysine Coated Plates

Product Codes:

Z382493	96 well; Clear/Clear bottom
M5682	96 well; White/Clear bottom
M5307	96 well; Black/Clear bottom
S7686	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:

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|-------------------------------------|-----------------------------|
| • 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

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

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, NY: 1994).
3. Doyle, A., *et al.*, eds, *Cell & Tissue Culture Laboratory Procedures*, Wiley, (New York, NY: 1998).
4. Mazia, D., *et al.*, *J. Cell Biol.*, **66**, 198, (1975).

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