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ProductInformation

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

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