Certificate of Analysis

Corning® BioCoat™ Cellware
Poly-L-Lysine
12 mm Coverslips

Corning BioCoat Cellware provides researchers with the ability to control *in vitro* cellular environments. Poly-L-Lysine is used as a substrate to facilitate development, proliferation and differentiation of neuronal cells.

CATALOG NUMBER:	354085	LOT NUMBER: 25024001
COVERSLIPS:	12 mm round, No. 1 German glass	
PACKAGING:	80 coverslips per package	
SOURCE:	Synthetic Poly-L-Lysine (Molecular Weight 30 - 70kD)	
USE:	Poly-L-Lysine is a synthetic homopolymer useful for promoting cell adhesion to plastic and glass. Poly-L-Lysine coverslips, with adherent hippocampal neurons, have been used to study induction and localization of proteins of the pericentriolar material during neuronal development,[1] for studies of bFGF on specific mRNA induction[2] and for the effect of neurotrophins on neuron survival and differentiation.[3] They have facilitated studies on proliferation and differentiation of dorsal root ganglia,[4] and helped elucidate the effect of N-CAM domains on adhesion and spreading of neuronal cell bodies and on neurite outgrowth and cellular migration.[5] Neonatal rat cortical neurons and cerebellar granule cells grown on Poly-L-Lysine coverslips have been used to compare the density and distribution of native $GABA_A$ receptors with recombinant $GABA_A$ receptors expressed in a tumor cell line transfected with various combinations of cDNAs encoding different $GABA_A$ subunits.[6] NOTE: Coverslips are coated on both sides.	
QUALITY CONTROL:	Tested for its ability to promote attachment and spreading of rat cerebellar granule cells. Tested and found negative for the presence of bacteria and fungi.	
STORAGE:	Stable when stored at 2-8°C. **DO NOT FREEZE**.	
EXPIRATION DATE:	November 16, 2026	

REFERENCES:

1. Ferreira, A., et al., Cell Motility and the Cytoskeleton, **25**:336 (1993).
2. Ferhat, L., at al., J. Neurochemistry, **61**:1105 (1993).
3. Ohsawa, F., et al., Neuroscience, **57**:67-77 (1993).
4. Inczedy-Marcsek, M., et al., In Vitro Cell. Dev. Biol., **29A**:661 (1993).
5. Frei, T., et al., J. Cell. Biol., **118**:177 (1992).
6. Caruncho, H. J., et al., Brain Research, **603**:234 (1993).

SAFETY RECOMMENDATION: Handle in accordance with good industrial hygiene and laboratory safety practices.

Quality Assurance

October 14, 2024
Date

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