ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

Life Technologies™ Your Molecular & Cell Technology Partner

Cat# **SP-101952-25**

Description: Poly-L-Lysine (4-15 Kda)

Size: 5 mg

Purity: >95%

Form Powder

Store: Desiccated at -20oC.

Poly-L-lysine is a positively charged amino acid polymer. There is approximately one HCl per lysine residue.

Poly-L-lysine is a nonspecific attachment factor for cells useful in promoting cell adhesion to solid substrates. Poly-L-lysine enhances electrostatic interaction between negatively charged ions of the cell membrane and the culture surface. When adsorbed to the culture surface, poly-L-lysine increases the number of positively charged sites available for cell binding.

Polymers of both D- and L-lysine are used to coat solid surfaces. Poly-L-lysine has been reported to improve the protein coating of ELISA plates. However, in culture applications, certain cells can digest poly-L-lysine. In this situation, poly-D-lysine should be used as the attachment factor so that the cells are not disrupted by excessive uptake of L-lysine. The molecular weight of poly-L-lysine or poly-D-lysine often preferred by users is 70,000-150,000

Applications and suggested usage:

Cell Culture:

When using poly-L-lysine as an attachment factor, the optimal conditions must be determined for each cell line and application.

Histology:

In general, a 0.1% (w/v) poly-L-lysine solution is recommended as a dip for histology slide preparation.

For research use only

References: Jacobson BS (1977) Scinece 195, 302; Needham L (1988) Lab. Invest. 59, 538-548; Banerjee DS (1989) In. j. Exp. Biol. 27, 972-976

Related Items

Catalog#	Prod Description
SP-100028-5	[Nle10]-Neurokinin A (4-10) [Asp-Ser-Phe-Val-Gly-Leu-Nle-NH2; MW 748.88]
SP-101374-1	FITC-LC-Myelin Basic Protein Peptide Substrate (AA: FITC-LC-Ala-Pro-Arg-Thr-Pro-Gly-Gly-Arg-Arg) (MW: 1325.4)
SP-101947-10	Lys-Lys-Lys (MW: 402.53)
SP-101948-5	Lys-Lys-Lys-Lys (MW: 530.73)
SP-101949-5	Lys-Lys-Lys-Lys-Lys (MW: 658.73)
SP-101950-50	Lys-Lys-Dihydrochloride (MW: 347.28)
SP-101951-25	Poly-L-Lysine hydrochloride (MW: 15-30 kda)
SP-101951-30	Poly-L-Lysine hydrochloride (MW: >30 kda)
SP-101952-5	Poly-L-Lysine-Agarose (4-15 Kda), aff matrix

SP-101952-25-Poly-L-Lysine 150916A

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