ALPHA DIAGNOSTIC INTERNATIONAL

Life Technologies™
Your Molecular & Cell Technology Partner

Product Data Sheet

Cat# **SP-101952-AS-5**

Description: Poly-L-Lysine-**Agarose** (4-15 Kda), aff matrix

Size: 5 ml

Store: At 4oC

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

L-lysine-agarose is used in protein chromatography, affinity chromatography and amino acid resins. L-lysine-agarose has been used to study mitogen-activated protein kinase (MAPK) cascades in abscisic acid (ABA) signal transduction pathways, as well as to study the regulation of phosphorylation of tau protein in the brain.

Form:

Poly-L-Lysine-**Agarose** (4-15 Kda) was coupled to 4% crosslinked agarose using proprietary techniques (1.5-3 mg/ml agarose). It is supplied in 1 M Nacl and 0.1% azide as 1:1 suspension (2.5 ml gel:2.5 buffer).

Storage
Store at 4oC. Do not freeze.

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#	ProdDescription
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-AS-5	Poly-L-Lysine-Agarose (4-15 Kda), aff matrix
SP-101952-AS-5-Poly-Lysine-Agarose	150507A

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