ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

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

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

**Size:** 5 ml

**Store**: **4°C**

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-lysi1ne 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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