

Lysine Agarose

Cat. No. Lysine-001A **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Lysine agarose 4B media with immobilized amino acid lysine is mainly used for isolation of plasminogen and plasminogen activator. The ϵ -amino and α -carboxyl groups on lysine is free after immobilization and interact with a range of biomolecules.
Cat.no	Lysine-001A
Characteristics	Lysine agarose 4B is L-lysine immobilized to agarose 4B by the cyanogen bromide method. L-lysine is coupled via its α -amino group, leaving both the ϵ -amino and α -carboxyl groups free to interact with sample substances during chromatography. It is designed for purification of molecules with biospecific or charge dependent affinity for L-lysine. Lysine agarose 4B is a group specific adsorbent and has been used for isolation of plasminogen and plasminogen activator, separation of ribosomal RNA (rRNA) and purification of doublestranded DNA. The precise mechanism by which separation occurs is not fully understood but both electrostatic and stereospecific effects may contribute to the separation, depending upon the application.
Size	15 g, 250 g
Matrix	Agarose, 4%
Functional group	Lysine
Average particle size	90 μ m
Ligand	L-lysine

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Ligand concentration	4–7 μ mol lysine/ml drained medium
Dynamic binding capacity	0.6 mg human plasminogen/ml drained medium; 0.6–0.7 mg rRNA/ml drained medium
Chemical stability	Stable to all commonly used aqueous buffers
Physical stability	Negligible volume variation due to changes in pH or ionic strength
pH working range	3-12
pH CIP range	2-13

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