

Thiopropyl Agarose

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

SPECIFICATION

Product Overview	Thiopropyl Sepharos contains reactive 2-thiopyridyl disulphide groups attached to agarose through a chemically stable ether linkage, which reacts with solutes containing thiol groups under mild conditions to form mixed disulphides. This reaction forms the basis of covalent chromatography and a procedure for reversible immobilization of thiol containing molecules.
Characteristics	1. separate thiol-containing proteins and peptides from non-thiol-containing proteins and peptides 2. in certain cases separate enzymes with active-site thiol groups from denatured enzymes 3. store and protect thiol-containing proteins 4. regenerate both the coupled biomolecule and the active bed material
Size	25 ml
Matrix	6% agarose
Functional group	2-pyridyl disulphide
Ligand concentration	18µmol 2-pyridyl disulphide/ml drained medium
Coupling chemistry	approx 10mg protein/ml drained medium, e.g. 14 mg ceruloplasmin (Mr 132 000) /ml drained medium
Recommended column height	50cm

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Chemical stability	Stable to all commonly used aqueous buffers and additives like detergents. Azides should be avoided.
Physical stability	Negligible volume variation due to changes in pH or ionic strength.
pH working range	2-8
pH CIP range	2-8

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