

Activated Thiol Agarose Fast Flow

Cat. No. Thiol-101A **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Activated Thiol Agarose Fast Flow medium is a medium used for reversible immobilization of molecules containing thiol groups under mild conditions. Optimized for immobilization of large molecules. Activated Thiol Agarose Fast Flow 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 immobilizing thiol containing biomolecules¹. Reversible coupling of proteins and large biomolecules with thiol groups via a glutathione spacer arm². Well suited for covalent chromatography of large molecules such as enzymes and nucleic acids³. Gel also reacts with heavy metal ions and with alkyl and aryl halides. Addition reactions occur with compounds containing C=O, C=C, and N=N bonds⁴. Separate thiol-containing proteins from non-thiol-containing proteins

Cat.no

Thiol-101A

Size

20 ml; 50 ml

Matrix

cross-linked Agarose

Functional group

-SH

Average particle size

90 µm

Ligand concentration

15-30 µmol /ml

Recommended flow

300 cm/h

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rate

Chemical stability Stable to all commonly used aqueous buffers and additives like detergents.

Physical stability Negligible volume variation due to changes in pH or ionic strength.

pH working range 3-10

Shelf life Stable for 2 years when stored at -20 °C

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