

HiScreen Capto PlasmidSelect

Product Information

Cat#No# Hi-142P

Product Overview

Capto PlasmidSelect is a chromatography resin that allows supercoiled covalently closed circular forms of plasmid DNA to be separated from open circular forms.

Description

Capto PlasmidSelect is a thiophilic aromatic adsorption chromatography resin with a selectivity that allows supercoiled covalently closed circular forms of plasmid DNA to be separated from open circular forms. The resin is designed for purification of supercoiled DNA to high quality for gene therapy and DNA vaccine applications. Compared with its predecessor PlasmidSelect Xtra resin, Capto PlasmidSelect is based on a more rigid base matrix, delivering excellent pressure-flow properties to plasmid production. The possibility to run at higher flow rates and bed heights increases flexibility in process design and allows for an increased productivity. Capto PlasmidSelect is available in bulk as well as in formats suitable for process development.

Characteristic

High-flow purification of supercoiled DNA from research scale to cGMP production.
Flexible process design due to a large operational window of flow velocities and bed heights.
Higher throughput for improved productivity and process economy.
Hydrophilic properties of base matrix prevent non-specific binding.
BioProcess resin supported for industrial applications.
Convenient small-scale purification, process development, and scale-up using prepacked HiScreen columns.

Maximum operating pressure

8 bar (0.8 MPa)

Matrix

Highly cross-linked agarose, spherical

Particle Size

36–44 µm

HiScreen Capto PlasmidSelect

Ligand

2-mercaptopyridine

Ligand density

27–50 µmol/mL

Dynamic binding capacity

≥ 3.0 mg/mL

Recommended flow rate

220 cm/h

Chemical stability

Stable in up to 1 M NaOH, 40% Isopropanol, up to 1 M acetic acid, and up to 70% ethanol.

pH working range

3 to 13

CIP stability

2 to 14

Storage

20% ethanol at temperatures between 4°C and 30°C.

Shipping

20% ethanol

Pack size

4.7 mL

Dimensions

0.77 × 10 cm

Column volume

4.7 mL