

## Capto PlasmidSelect

### Product Information

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**Cat#No#** Ca-420C

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### Product Overview

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Capto PlasmidSelect allows supercoiled covalently closed circular forms of plasmid DNA to be separated from open circular forms.

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.

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### Description

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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.

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### Characteristic

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Flexible process design due to a large operational window of flow velocities and bed heights.

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### Matrix

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Highly cross-linked agarose, spherical

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### Particle Size

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## Capto PlasmidSelect

36–44 µm

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### Ligand

2-mercaptopyridine

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### Dynamic binding capacity

≥ 3.0 mg/mL

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### Recommended flow rate

220 cm/h

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### Chemical stability

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

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### pH working range

3 to 13

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### CIP stability

2 to 14

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### Temperature stability

4°C and 30°C

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### Shipping

20% ethanol

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### Cleaning-in-place

General recommendation for CIP and sanitization of Capto PlasmidSelect is to use 1.0 M NaOH. Use of a water-diluted organic solvent, such as ethanol or isopropanol, can be efficient in breaking strong hydrophobic interactions during CIP.

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### Sanitization

General recommendation for CIP and sanitization of Capto PlasmidSelect is to use 1.0 M NaOH. Use of a water-diluted organic solvent, such as ethanol or isopropanol, can be efficient in breaking strong hydrophobic interactions during CIP.



## Capto PlasmidSelect

**Pack size**

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25 mL

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**BioProcess resin**

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Yes

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