

PreDictor Capto adhere ImpRes

Product Information

Cat#No# Pr-296P

Product Overview

PreDictor plates are disposable, 96-well filter plates for parallel screening of resins and chromatographic conditions such as binding, wash, and elution conditions. Different applications may require different amounts of resins in the wells. Data generated using PreDictor plates show good correlation with data from chromatography columns, making the plates an excellent tool for initial screening of process conditions.

Characteristic

Supports high-throughput process development (HTPD) by allowing parallel screening of chromatographic conditions using a 96-well plate format.

Allows fast and efficient evaluation of parameters for binding/wash/elution conditions, and resin benchmarking.

Results show good correlation with data obtained by column chromatography.

Each well is prefilled with defined amounts of Capto adhere ImpRes.

Can be used with centrifugation or vacuum, manually or in automated robotic systems.

Assist software supports the PreDictor workflow from set-up of experimental design to data evaluation.

Metal ion capacity

0.08 to 0.11 mmol Cl-/mL resin

Matrix

highly cross-linked agarose

Average particle size

36 to 44 µm

Chemical stability

All commonly used aqueous buffers, 1 M acetic acid, 1 M sodium hydroxide.

pH working range

3 to 12

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CIP stability	
2 to 14	
Storage	

Evaluation of Packing

4°C to 30°C

The best method of expressing the efficiency of a packed column is in terms of the height equivalent to a theoretical plate (HETP) and the asymmetry factor (As). The values are easily determined by applying a test sample such as 1% acetone solution or sodium chloride to the column.

Cleaning-in-place

Precipitated hydrophobically bound proteins or lipoproteins: Wash with at least 3 column volumes of 1 M NaOH at a low flow velocity with reversed flow direction. Contact time at least 15 min.

lonically bound proteins: Wash with 0.5 to 2 column volumes of 2 M NaCl with reversed flow direction.

Lipids and very hydrophobic proteins: Wash with 1-propanol 1 to 5% or isopropanol 5 to 30%. 1-propanol has a higher flash point and might be preferred in an industrial environment.

Nucleic acids: Wash with 0.1 M acetate, pH 3 for 2 to 5 column volumes followed by buffer at neutral pH for 1 to 2 column volumes. Then wash with at least 3 column volumes 1 M NaOH at a low flow velocity with reversed flow direction. Contact time 15 min.

Sanitization

To reduce microbial contamination in the packed column, sanitization using 0.5 to 1 M NaOH with a contact time of 1 hour is recommended. The CIP protocol for precipitated, hydrophobic bound proteins or lipoproteins removes bound contaminants and sanitizes the chromatography resin effectively.

Pack size	
6 μl	
Maximum flow velocity	
300 cm/h	
Dimensions	

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127.8 x 85.5 x 30.6 mm

4°C

Functional group
Multimodal strong anion exchanger
Number of wells
96
Material
Polypropylene (PP) and Polyethylene (PE)
Resin suspensions in total volumes
200 μ l for 2 μ l sedimented medium/well 500 μ l for 6, 20, and 50 μ l sedimented medium/well For PreDictor isotherm plates: – 500 μ l for 50 μ l sedimented medium/well – 200 μ l for 20 μ l sedimented medium/well – 500 μ l for 8 μ l sedimented medium/well – 375 μ l for 6 μ l sedimented medium/well – 250 μ l for 4 μ l sedimented medium/well – 125 μ l for 2 μ l sedimented medium/well.
Centrifugation force recommended
100 x g (Sample Dependent)-500 x g (Sample Dependent)
Centrifugation force max.
700 x g
Operating temp. max.
30°C
Operating temp. min.

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