

## HiScreen Octyl FF

### Product Information

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**Cat#No#** Hi-143P

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### Product Overview

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HiScreen Octyl FF columns are prepacked with Octyl Sepharose 4 Fast Flow hydrophobic interaction chromatography (HIC) resins. The columns are an excellent choice for method optimization and parameter screening.

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### Description

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The small column volume of 4.7 mL and bed height of 10 cm make HiScreen columns excellent tools for method optimization, parameter screening, robustness testing, and convenient scale-up. Process fluid velocities can be applied, since the 10 cm bed height gives enough residence time and the results can then serve as basis for linear process scale-up.

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### Characteristic

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Octyl Sepharose 4 Fast Flow is a well-established, standard aliphatic HIC resin for capture and intermediate purification.

Prepacked, ready-to-use columns for convenient process development optimization.

10 cm bed height of HiScreen columns is designed to allow method optimization and parameter screening.

Easily connected in series to achieve 20 cm bed height.

Small bed volume gives fast results and minimal sample/buffer consumption.

Reproducible results, scalable to BioProcess columns packed with the same resin using the same linear fluid velocity.

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### Maximum operating pressure

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1.5 bar [0.15 MPa] (22 psi)

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### Matrix

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Cross-linked agarose, 4%, spherical

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### Average particle size

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~ 90 µm

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## HiScreen Octyl FF

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**Ligand**

Octyl

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**Ligand density**

~ 5 µmol/mL resin

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**Recommended flow rate**

< 240 cm/h

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**Recommended column height**

100 mm

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**Chemical stability**

Stable to commonly used aqueous buffers, 1.0 M NaOH, 8 M Urea, 6 M guanidine hydrochloride, 30% isopropanol, and 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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**Storage**

4 to 30°C, 20% Ethanol or 0.01M NaOH

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**Elution buffer**

50 mM sodium phosphate, pH 7.0.

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**Cleaning-in-place**

1. Wash with 3 column volumes (CV) of water or elution buffer.
2. Wash with 4 CV 0.5 to 1.0 M NaOH at a low flow rate ( $\leq 0.78$  mL/min ( $\leq 100$  cm/h)).
3. Wash with at least 3 CV water.

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**Pack size**

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## HiScreen Octyl FF

4.7 mL

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**Maximum flow velocity**

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1.8 mL/min

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**Dimensions**

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7.7 × 100 mm

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**Column volume**

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4.7 mL

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**Column i.d.**

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7.7 mm

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**Column hardware pressure limit**

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0.8 MPa (8 bar, 116 psi)

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