

# Certificate of Analysis



## Octave™ Ni-NTA SF Columns, 1 ml, Set of 8

Catalog Number: C1001S  
Kit Lot Number: 133224653  
Column Lot Number: 133222785  
Quantity: Set of 8

### Description

Octave Ni-NTA SF Columns are pre-filled with 1 ml or 5 ml Ni-NTA Superflow and are ready for purification of His-fusion proteins with the Semba Octave™ Chromatography System. The His-fusion tag comprising 6 or more consecutive histidine residues binds with high selectivity to the nickel-nitriloacetic acid (Ni-NTA) resin and provides significant advantages for affinity purification of recombinant proteins. Recommended conditions for the Octave System have been scripted in the SembaPro™ software for convenient purification with either 1-ml or 5-ml Octave Ni-NTA SF columns. The Ni-NTA SF matrix has excellent mechanical stability, flow characteristics and high dynamic binding capacity, with up to 50 mg His-fusion protein bound per milliliter. The Superflow resin is a

highly cross-linked 6% agarose with a bead diameter of 60-169 µm. The column body is composed of polypropylene. Connectors are 1/16", 10-32 (inlet) and M6 (outlet).

### Storage Conditions

Octave Ni-NTA SF Columns should be stored at 2-8°C. Do not freeze! Columns can be stored up to 1 week in Bind buffer. Columns can be stored in 20% ethanol (as supplied) for one year without any reduction in performance.

### Product Guarantee

When stored as directed the product is guaranteed to maintain stability for 6 months from the date of shipment.

### Quality Control Specifications

Test	Specifications
<i>Cu<sup>2+</sup> Binding Capacity</i> The Ni <sup>2+</sup> binding capacity of the NTA SF resin was determined by testing its capacity to bind Cu <sup>2+</sup> .	≥ 10 µmol/ml NTA SF
<i>Protein Binding Capacity</i> The protein binding capacity of the Ni-NTA SF resin was analyzed by purifying a His-fusion protein (mouse DHFR protein) expressed in <i>E. coli</i> under denaturing conditions and a His-fusion protein (chloramphenicol acetyl transferase protein) expressed in <i>E. coli</i> under native conditions. The yield and purity were determined by Bradford assay and SDS-PAGE analysis.	≥ 5 mg/ml Ni-NTA SF

### Certified By

K. Stephens, QC Manager

### For Research Use Only

#### Warranty

Semba Biosciences, Inc. warrants the product will meet or exceed these specifications when used (under normal conditions) in your laboratory. We will promptly replace the product free of charge if the product does not conform to these specifications. Our obligation and your sole remedy is limited to such replacement in the event the product proves to be defective. No other warranties are expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Semba Biosciences, Inc. is not liable for consequential damages.

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