



Certificate of Analysis

Description of the Product:

- (a) Product Name: HIC Standard for Column Performance
- (b) Appearance: Lyophilized powder
- (c) Amount: 2 tubes

Material Code and Batch Number:

- (a) Part Number: CM92007
- (b) Lot Number: NB0390824

SEC HPLC Profile of the Protein Standard

HPLC column: (1) Protein-Pak Hi Res HIC, 2.5 μ m, 4.6 x 100 mm.
(2) Protein-Pak Hi Res HIC, 2.5 μ m, 4.6 x 35 mm.

HPLC condition:

Column (1) 100% Buffer A to 100% Buffer B in 15 min, 0.6 mL/min. Instrument: Agilent 1100 HPLC series, 30 °C. Reconstitution in 120 μ L water, 10 μ L injection.

Column (2) 100% Buffer A to 100% Buffer B in 10 min, 0.8 mL/min. Instrument: Agilent 1100 HPLC series, 30 °C. Reconstitution in 120 μ L water, 10 μ L injection.

Name	Cell Mosaic Part #	Description
Buffer A (Red label)	CM02025.1	0.1 M Sodium phosphate buffer, 1.8 M Ammonium sulfate, pH 6.4
Buffer B (Blue label)	CM02025.2	0.1 M Sodium phosphate buffer, pH 7.0

- (a) List of proteins/biomolecules and their retention times.

Table 1: Protein-Pak Hi Res HIC, 2.5 μ m, 4.6 mm x 100 mm column.

Name	Rt (min.)
L-Histidine	1.254
Ribonuclease A	4.522
Lysozyme	6.676
Chymotrypsinogen A	11.204

See **Figure 1** for HPLC profile.

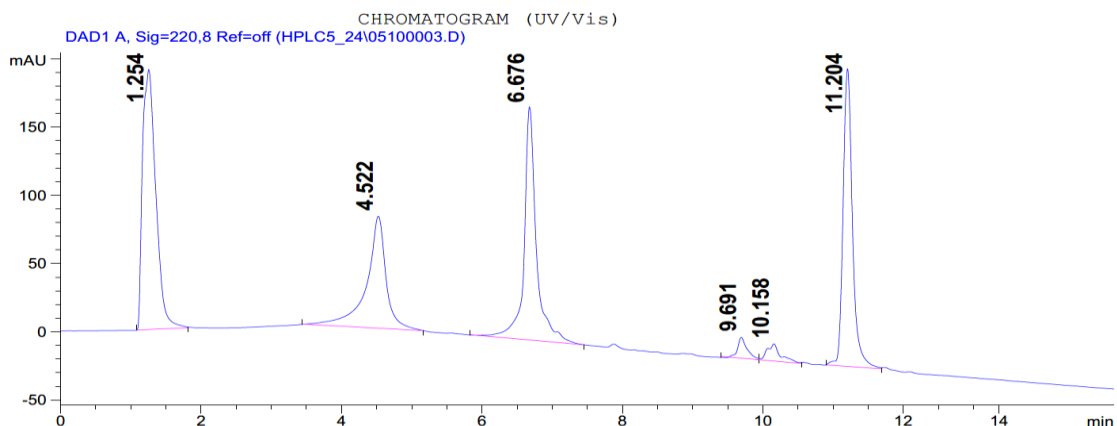
Table 2: Protein-Pak Hi Res HIC, 2.5 μ m, 4.6 mm x 35 mm column.

Name	Rt (min.)
L-Histidine	0.400
Ribonuclease A	1.991
Lysozyme	3.497
Chymotrypsinogen A	6.694

See **Figure 2** for HPLC profile.

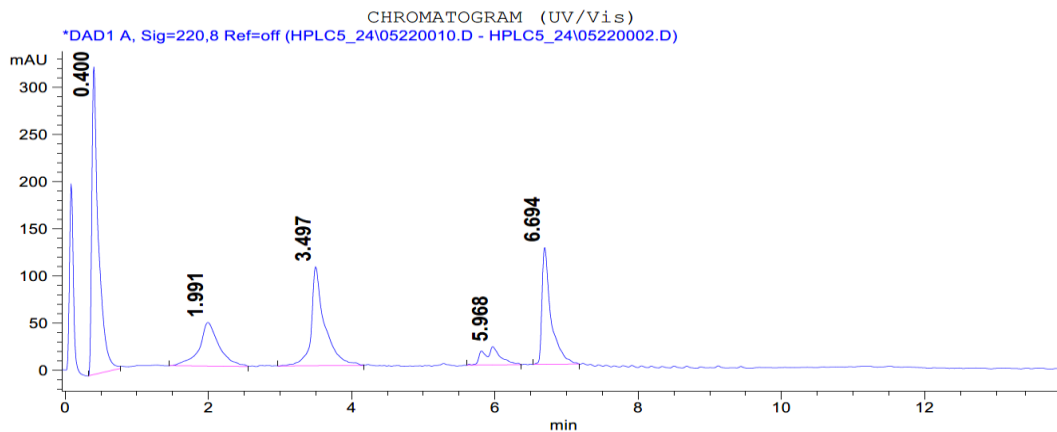
(b) HPLC Profiles

Figure 1: HPLC profile of HIC Standard CM92007 analyzed using Protein-Pak Hi Res HIC, 2.5 μm , 4.6 mm x 100 mm column.



Note: Self digested fragments from Chymotrypsinogen A are observed at 9.691 and 10.158 min.

Figure 2: HPLC profile of HIC Standard CM92007 analyzed using Protein-Pak Hi Res HIC, 2.5 μm , 4.6 mm x 35 mm column.



Note: Self digested fragments from Chymotrypsinogen A are observed at 5.968 min.

Intended Use: For investigational (RUO) use only.

Hazard Information: see SDS.

Shelf life, Storage/Stability: The conjugate is fairly stable as solid at ambient temperature. Recommended long-term storage is at -20 °C or preferably in a -80 °C freezer. After reconstitution, the solution may be able to stay at 2-8 °C for few days. Self-digested fragments from Chymotrypsinogen A may increase over time.

Expiration Date: 1 year after receiving if stored at -20 °C or below.

Certified by: Yumei Huang
Certifying Officer: Yumei Huang