

Data Sheet -69385

69385 Protein Standard Mix 15–600 kDa for testing of SEC/GFC columns

Storage Temperature –20 °C

Product Description

The Protein Standard Mix is a calibration standard to test and monitor performance of size exclusion chromatography (SEC) columns. It is a lyophilized mixture of molecular weight markers ranging from 15 kDa to 600 kDa. The mixture consists of 4 proteins thyroglobulin, gamma-globulins, albumin, ribonuclease A and a low molecular weight marker (pABA). The standard is supplied as a single 2 mL vial or as set of 6 x 2 mL vials of 30 mg lyophilized protein standard mix.

Components

Component	Concentration	Molecular Weight (Da)
Thyroglobulin bovine	0.5 g/L	~670,000
γ-globulins from bovine blood	1.0 g/L	~150,000
Ovalbumin (Albumin chicken egg grade V)	1.0 g/L	~44,300
Ribonuclease A type I-A from bovine pancreas	1.0 g/L	~13,700
p-aminobenzoic acid (pABA)	0.01 g/L	137
Buffers and preservatives		

Preparation Instructions

Add 1 mL deionized H₂O to the protein standard vial and swirl gently to solve the lyophilizate. Spin down eventually unsolved fine particles. The clear supernatant can then be applied to the HPLC column.

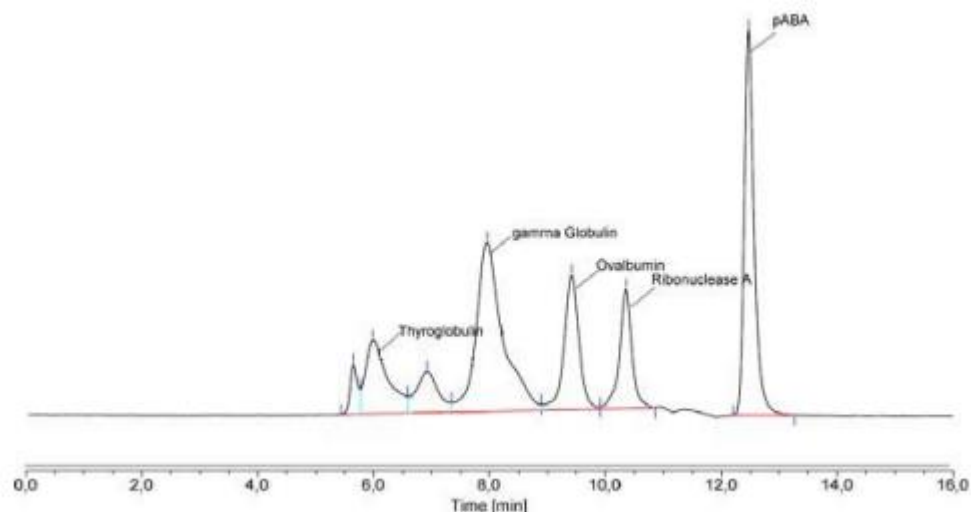
Storage/Stability

The lyophilized standard is stable when stored at –20 °C for 2 years. The hydrated protein mixture can be kept for up to one week at 2–8 °C.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Representative Chromatogram



Conditions

SEC Column: TSKgel® G3000SWXL 808541, (7,8 mm ID x 300 mm L, 5 µm particles, 250 Å Pore Size)
Mobile Phase: 0.1 M sodium phosphate, 0.1 M sodium sulfate, 0.05% sodium azide, pH 6.7
Flow Rate: 1 mL/min Detection UV at 280 nm
Injection Volume: 20 µL

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