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 H_2O 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.

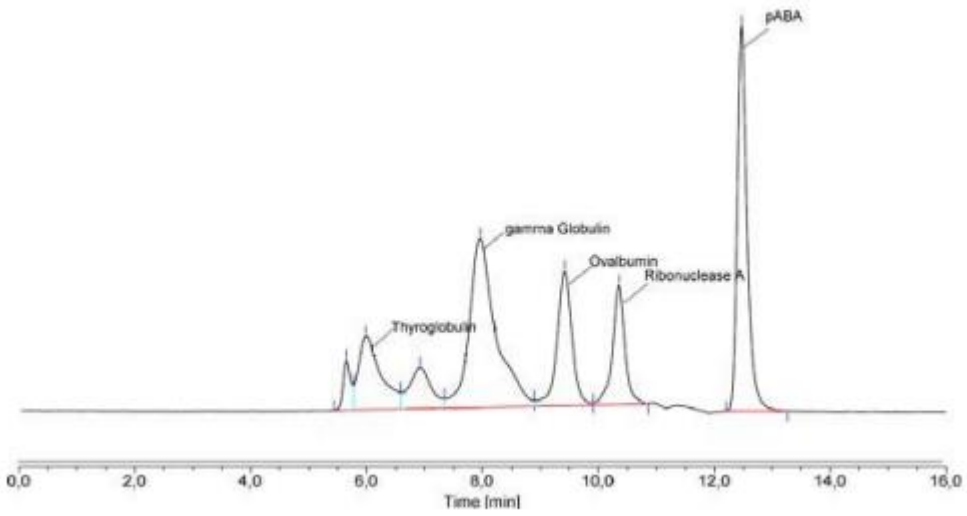
Storage/Stability

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