

Certificate of Analysis



Express-timator™ Kit

Catalog Number: R1001K

Kit Lot Number: 1055-1

Components and Storage Conditions

Components	Component Lot Number	Quantity	Storage Conditions
Express-timator Standard 0 mg/ml	1024-1	1 x 220 µl	-20°C
Express-timator Standard 0.5 mg/ml	1025-1	1 x 220 µl	-20°C
Express-timator Standard 1.0 mg/ml	1026-1	1 x 220 µl	-20°C
Express-timator Standard 2.0 mg/ml	1027-1	1 x 220 µl	-20°C
Express-timator Standard 3.0 mg/ml	1028-1	1 x 220 µl	-20°C
SDS Sample Buffer, 4X	1021-1	1 x 1 ml	-20°C

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

Description

The Express-timator Kit is used to estimate target recombinant protein expression levels in *E. coli* cell lysates. The kit contains a set of standards consisting of soluble BL21 cell lysate containing known amounts of a 52.2-kDa recombinant protein. The standards are run along-side cell lysate samples containing expressed target proteins on an SDS-polyacrylamide gel followed by Coomassie blue staining. By comparing band intensities vs. the known standards, the target protein level can be estimated fairly accurately. It is important to have a reasonable estimate of the target protein concentration for maximum performance of many chromatographic procedures, including purification with the Octave™ Chromatography System.

Estimation of target protein concentration

The Express-timator Standards correspond to soluble cell lysate at a total protein concentration of 10 mg/ml, including the target protein. The target protein concentrations in the standards and their percentages of the total protein are given in the following table.

Standard	[52.2-kDa Target]	% Total Protein
0	0	0%
0.5	0.5 mg/ml	5%
1.0	1.0 mg/ml	10%
2.0	2.0 mg/ml	20%
3.0	3.0 mg/ml	30%

Quality Control Specifications

Test	Results
Visual Appearance of Each Express-timator Standard Verified Against Reference	Pass
Verification of Concentration of Each Express-timator Standard	Pass

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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