

Recombinant Protein A Tetramer (PA-TET-ST-CYS)

Certificate of Analysis

Product Name:	Recombinant Protein A tetramer Z4-ST-CYS (containing C-terminal Cys)
Product Code:	[PA-TET-ST-CYS-xxx]
Lot Number:	[PA-TET-ST-CYS-xxxx]
Date of Manufacture:	[DD.MM.YYYY]
Retest Date:	[DD.MM.YYYY]
Formulation Buffer:	1x PBS, [REDUCING AGENT CONC. IF APPLICABLE], pH [7.4]
Product Concentration:	[xx.x] mg/mL
Product Volume:	[xx] mL
Total Amount:	[xxx.x] mg
Storage Temperature:	-20 °C ± 5 °C
Product Information:	For research and development use only.

Recombinant *Staphylococcus aureus* Protein A tetramer (PA-TET-ST-CYS) and its derivatives are manufactured through microbial fermentation using *Escherichia coli* cells. The strain employed in production is a Genetically Modified Organism (GMO classified at safety level S1). The manufacturing process is animal-component-free; the product is therefore free of materials with TSE/BSE risk and of raw materials of animal origin. No antibiotics are used in the manufacturing process. PA-TET-ST-CYS is provided as a clear to yellowish liquid, formulated in 1x PBS.

This Certificate of Analysis has been issued based on internally validated methods and specifications for research-use-only products.

LOT: [PA-TET-ST-CYS-xxxx]

Parameter	Method	Specification	Result
Appearance (Color)	Visual	Clear to yellowish solution	EXAMPLE
Appearance (Turbidity)	Visual	Clear, free of visible particles	EXAMPLE
Appearance (Form)	Visual	Liquid	EXAMPLE
pH	Potentiometric	7.4 ± 0.2	EXAMPLE
Protein concentration	UV absorbance, A280 (calculated ε)	≥ 30 mg/mL	EXAMPLE
Nucleic acid content	UV spectrum, A260/A280 ratio	≤ 0.60	EXAMPLE
Identity	SDS-PAGE (reduced), Coomassie	Single major band at [27] ± 3 kDa	EXAMPLE
Purity	SDS-PAGE (reduced) and/or SE-HPLC	≥ 90 %	EXAMPLE
Endotoxin level	LAL-Test acc. to Ph. Eur. 2.6.14, Method F	≤ 10 EU/mg	EXAMPLE
Bioburden	TAMC/TYMC acc. to Ph. Eur. 2.6.12	≤ 10 CFU/mL	EXAMPLE

For further inquiries, please contact our Technical Service team. The purchaser is responsible for determining the suitability of the product for its specific application.

Recombinant Protein A Tetramer (PA-TET-ST-CYS)

SE-HPLC and SDS-PAGE analysis of lot [Z4STxxxx]

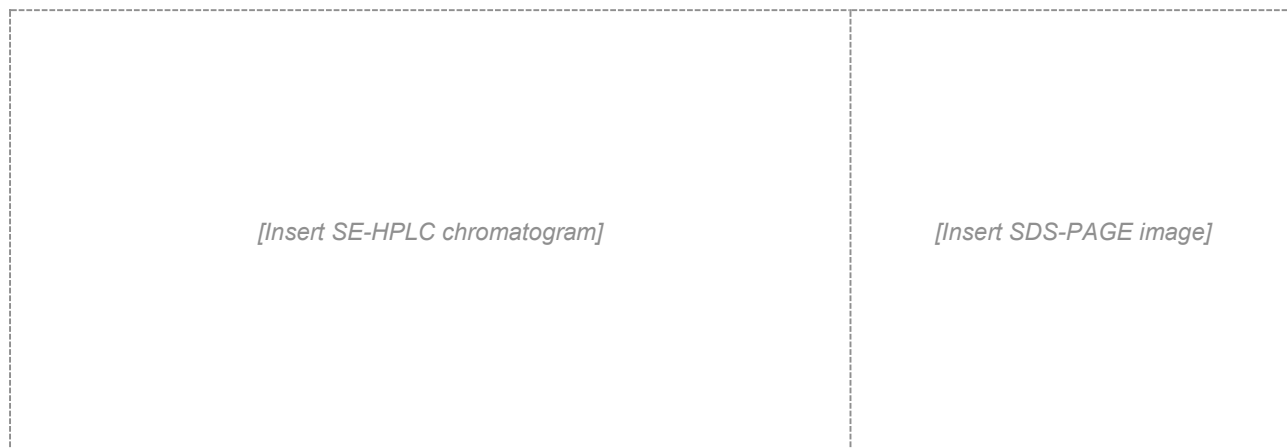


Figure 1: SE-HPLC analysis of purified Z4-ST (left) on Superdex 200 Increase 5/150 GL. SDS-PAGE of purified Z4-ST (right) under reducing conditions. Lane 1: protein ladder; Lane 2: Z4-ST, [20]-fold dilution.

EXAMPLE

Quality Assurance

EXAMPLE

Date

**NOT FOR HUMAN OR DIAGNOSTIC USE.
FOR RESEARCH AND DEVELOPMENT USE ONLY.**

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