



## Certificate of Analysis

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### LudgerTag™ V-TAG Glycan Labeling Kit

Cat. #: LT-VTAG-24  
samples

Batch #: B555-02

Size: 1 set of labeling reagent per kit, for 24

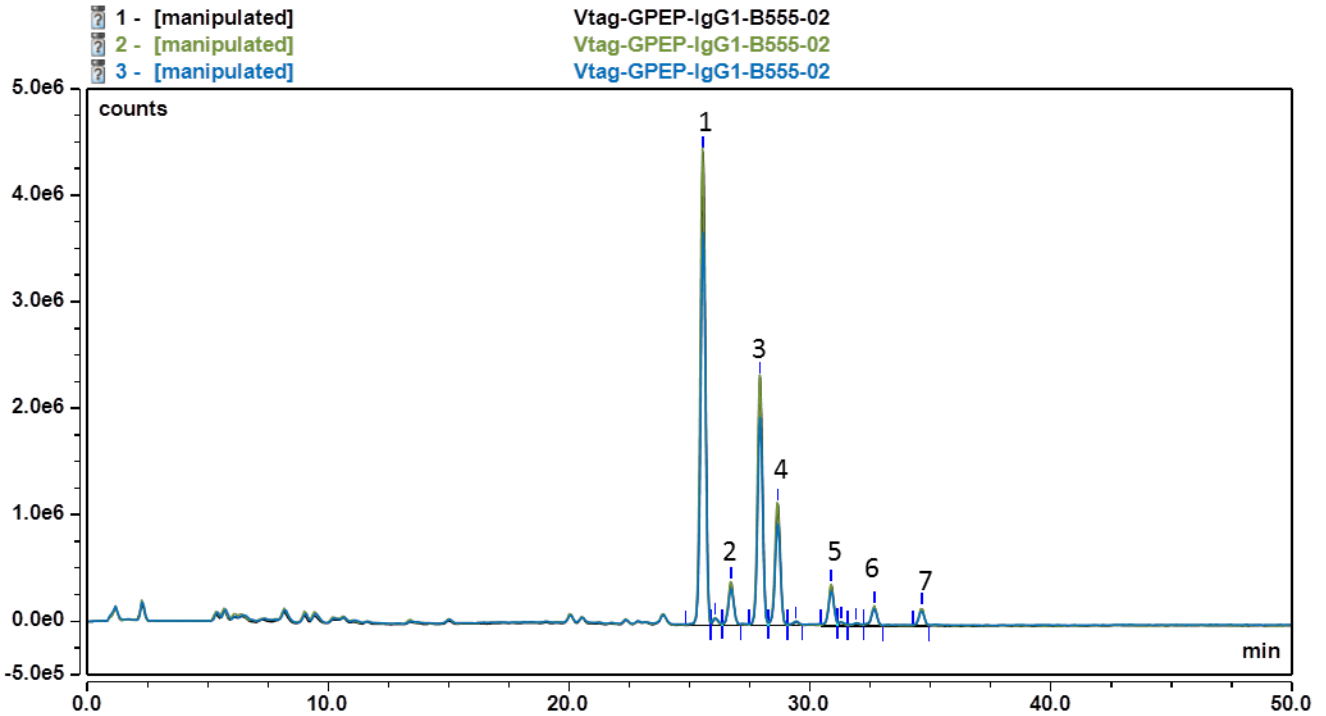
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This kit conforms to the specifications given in Ludger document # LT-VTAG-24-guide-v2.0

Each kit contains the following components:

Quantity per Kit	Cat #	Batch #	Component Name
1	LC-A-24	B551-04	LudgerClean™-A Cartridges
1	LC-TFA-10PC-01	B53Q-07	10% TFA solution
1	LT-PBS-TAB-0.01M	B542-01	PBS tablet (pH 7.2, 0.01M in 1L)
1	LT-VTAG-01	B53J-01	V-Tag-Dye in DMSO

Expiry Date: 24<sup>th</sup> Sep 2021



**Figure 1:** HILIC HPLC profile of three tryptic IgG-1 glycopeptide samples (10ug weight of protein before digest) labeled using LT-VTAG-24 (Batch **B555-02**)

**HPLC Running Conditions:**

Column: Waters BEH Glycan column (1.7µm-2.1x150)      Flow: 0.56 mL/min

Solvent A: 50 mM ammonium formate pH 4.4    Solvent B: 100 % acetonitrile    Temperature: 60 °C.

Gradient:      0 min – 76% B, 53.5min-55% B, 54.5 min – 0% B, 57.5 min – 0% B, 59.5 min – 76% B

Detector: Dionex FLD-3000      Excitation wavelength: 250 nm      Emission wavelength: 360 nm

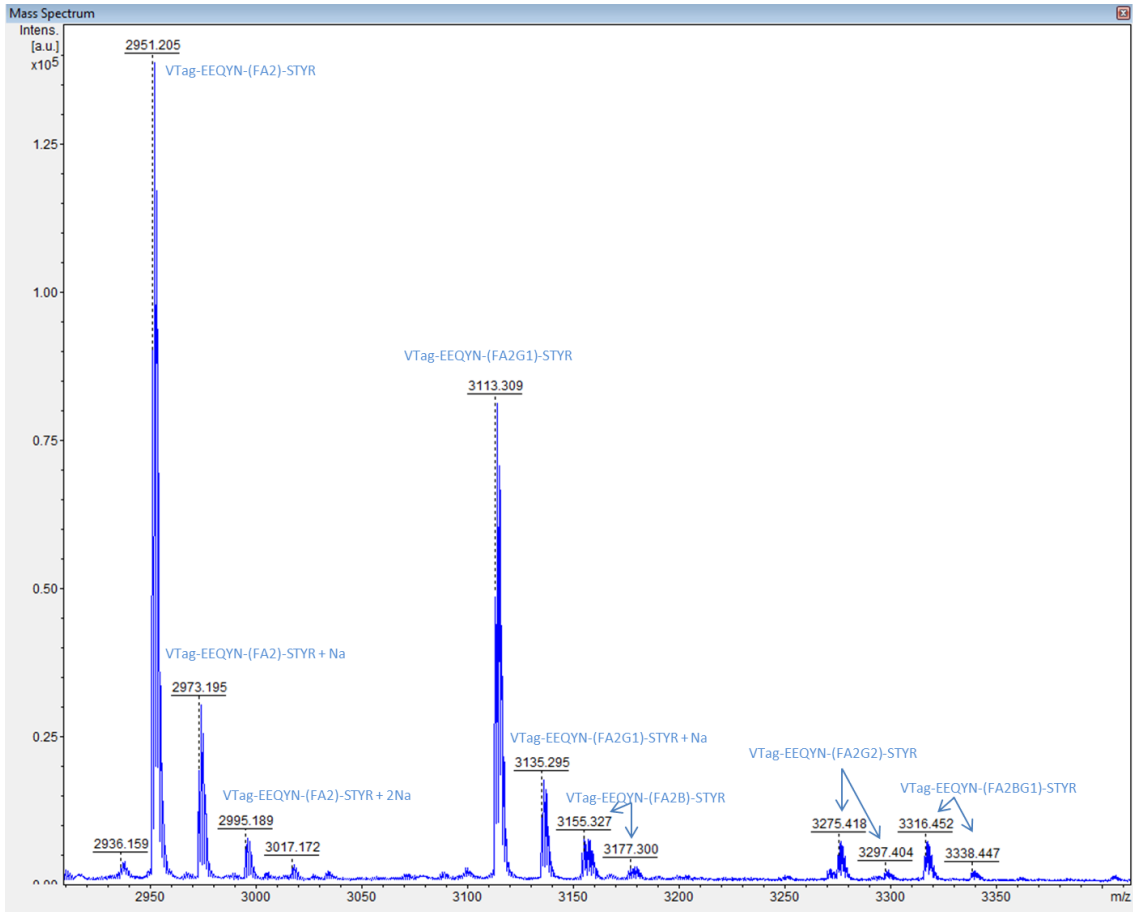


Figure 2. Negative ion mass spectrum of a V tag labeled tryptic IgG-1 glycopeptides using a Bruker MALDI-TOF instrument. Theoretical masses (MALDI show [M-1]):

VTAG-EEQYN-(FA2)-STYR	2952.3579
VTAG-EEQYN-(FA2G1)-STYR	3114.4107
VTAG-EEQYN-(FA2B)-STYR	3155.4373
VTAG-EEQYN-(FA2G2)-STYR	3276.4635
VTAG-EEQYN-(FA2BG1)-STYR	3317.4901

- Matrix: 2,5-dihydroxybenzoic acid (DHB), 0.1%TFA
- Mode: negative ion