



## CERTIFICATE OF ANALYSIS

PRODUCT NAME: Gly-Q GU Ladder

PRODUCT CODE: GKSQ-503

LOT NUMBER: DP17E2302a

PACK SIZE: 100  $\mu$ l (qualitative standard for glycan identification)

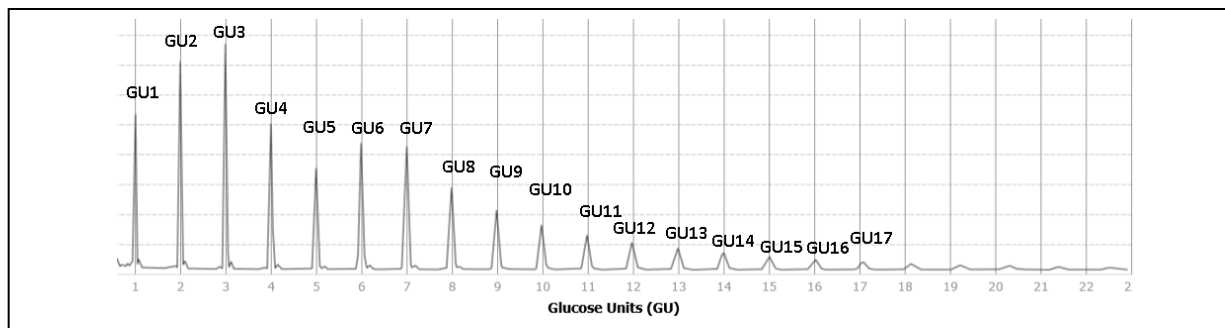
FORM: Aqueous solution of 50  $\mu$ M Sodium Chloride

STORAGE: Store at -20°C in the dark. The glycan may be stored on the Gly-Q instrument at room temperature for up to 18 hours without significant impact on performance (cap securely and return to -20°C for longer term storage).

EXPIRATION: January 2019

STRUCTURE: The Gly-Q Glucose Unit (GU) Ladder consists of a mixture of  $\alpha$ (1,4)-linked glucose oligosaccharides (maltodextrin) with a variable number of monomeric glucose units (1-15 or more). Glycans are labeled with a fluorescent dye for separation and detection on the Gly-Q system.

**Quality Control:**



**Figure 1 – Gly-Q Results:** The Gly-Q labeled standard is injected onto a Gly-Q CE Instrument (GQ2000) under the conditions and method below:

**METHOD:**

Action	High Voltage	Duration, seconds	Position	Sampling Interval, Seconds
High Voltage Purge	4.00	10.00	Wash	0.04
Pause		2.00	Clean	
Well Plate Injection	2.00	2.00	Sample	0.04
Pause		2.00	Clean	
Separation & Detection	10.00	120.00	Separation	0.04

**Structural Analysis:** The purity and structural integrity of the glycan standard was assessed by capillary electrophoresis (CE).

**Application:** As a peak reference standard in capillary electrophoresis for the assignment of GU values.

**Handling:** The labeled oligosaccharide standard is shipped in solution (100 µl). Allow the unopened vial to reach ambient temperature and centrifuge the vial briefly before use. Aliquot out the desired quantity (see Directions for Use) and return remaining solution to -20°C. The glycan may undergo up to four freeze-thaws without significant effect on performance.

Make sure that any glassware, plasticware, solvents or reagents used are free of glycosidases and carbohydrate contaminants.

Minimize exposure to elevated temperatures or extremes of pH.

**Directions For Use:** The amount of labeled glycan standard used with the Gly-Q Instrument is typically 50 µl. For our Quality Control testing, an aliquot was transferred to a PCR tube and replicate runs were processed. Typically, ~30 injections are obtained from a 50 µl aliquot. Signal decrease can occur over repeated injections from the same aliquot.

For further information on Gly-Q methods, please contact ProZyme:

[info@prozyme.com](mailto:info@prozyme.com)

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Authorized Signature