



Glycogen Synthase [pSpS641/645] Singleplex Bead Kit

Technical Data Sheet

Catalog #: LHO0731

Lot #:* A10886

*Note: A letter at the end of the lot number signifies an additional packaging of this same lot.

Intended Use

This kit is comprised of components for the measurement of Glycogen Synthase [pSpS641/645] in cell lysates. Buffer reagents needed to complete the reaction are sold separately under Catalog #LHB0002. These reagents are intended for use in the **Luminex® 100™ or 200™ System** only.

Note: This kit uses a Co-Incubation Assay format. Refer to the User Manual included in the Intracellular Protein Buffer Reagent Kit (Cat # LHB0002) for further information.

Before attempting to multiplex this kit with any other kits, please contact Technical Support.

This kit is configured for research use only and is not to be used in diagnostic procedures.

Reagents Provided

1. **Part #:** LM200 **Description:** Glycogen Synth. [pSpS641/645] Antibody Bead Concentrate (10X) **Lot:** A10883 **Size:** 0.25 mL-100 tests

Bead Region: 20

Form: 0.25 mL 10X bead concentrate solution in storage buffer. Contains 0.05% sodium azide as a preservative.

Storage: **Light sensitive material.** Store at 2 to 8°C, in the dark, until the expiration date indicated on the kit.

2. **Part #:** DN200 **Description:** Glycogen Synth. [pSpS641/645] Detection Ab Concentrate (10X) **Lot:** A10884 **Size:** 0.5 mL-100 tests

Form: 0.5 mL of a 10x stock of Detection Antibody Concentrate. Contains 0.1% sodium azide as preservative. Concentration of antibody is matched to this lot of beads. Do not mix lots of Coated Beads and Detection Antibody.

Storage: Store at 2 to 8°C until the expiration date indicated on the kit.

3. **Part #:** SM200 **Description:** Glycogen Synth. [pSpS641/645] Standard **Lot:** A10885 **Size:** 2 Vials

Form: This standard (lyophilized recombinant protein) is designated in Units/mL. The protein in this standard has been calibrated with its respective Invitrogen ELISA kit. Detailed information on calibration is provided below. Contains 0.1% sodium azide as a preservative.

Storage: Store at 2 to 8°C. Use within 1 hour after reconstitution. The remaining reconstituted standard should be discarded or frozen in aliquots at -80°C for further use. The standard can be frozen and thawed one time without loss of immunoreactivity.

Concentration of Reconstituted Standards**:

Glycogen Synthase [pSpS641/645] (150 Units/mL)

****Important note: The concentrations of reconstituted standards are lot-specific. Please verify all concentration values entered in data analysis software.**

Reconstitution: Reconstitute in **1.0 mL Assay Diluent**.

Recommended Starting Concentration for Standard Curve: Upon reconstitution, the starting concentration of standards is the value cited above. Make 2-fold serial dilutions in *Assay Diluent*. Refer to the User Manual included in the Buffer Reagent Kit for further information.

Calibration: This reagent set was calibrated to its respective Invitrogen ELISA kit, Glycogen Synthase [pSpS641/645] ELISA (KHO0731). Subsequent lots of standard will be normalized to this lot of material to allow consistency of quantitation.

Species Reactivity: This reagent set recognizes human, mouse, and rat proteins. Other species have not been tested.

For Research Use Only. CAUTION: Not for human or animal therapeutic or diagnostic use.

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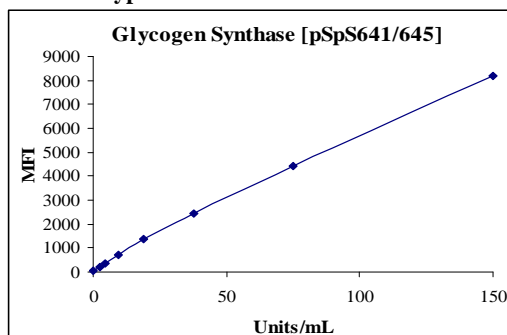
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Performance Characteristics

Typical Standard Curve



Note: This is a representative standard curve.
Absolute MFI values will vary.

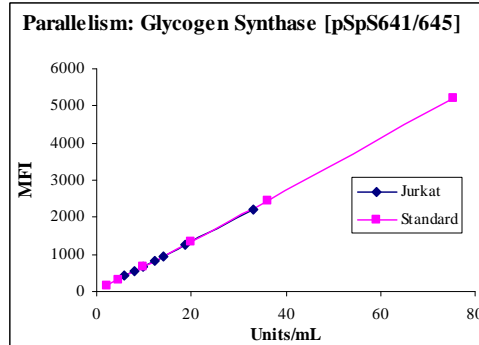
Protein	Glycogen Synthase [pSpS641/645]
Sensitivity (Units/mL) ¹	0.35
Recovery (10% FNN0011) ²	97.6
Recovery (10% FNN0021) ²	100.1
Intra-assay variation (n=16)	5.16
Inter-assay variation (n=32)	7.30

¹**Analytical Sensitivity:** The analytical sensitivity was determined by adding two standard deviations to the median fluorescence intensity obtained when the zero standard was assayed 32 times.

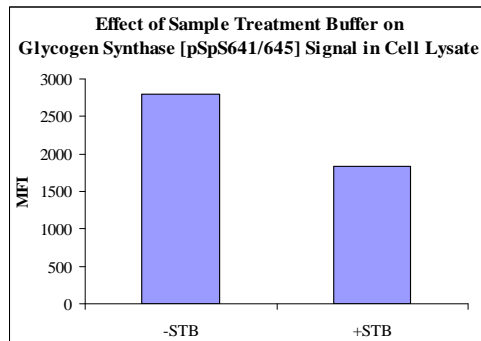
²**Recovery:** To evaluate recovery, analytes were spiked at 3 different concentrations into 10% Cell Extraction Buffer (Cat. # FNN0011) and 10% NP40 Cell Lysis Buffer (Cat. # FNN0021).

Sample Preparation: This kit has been validated with cell lysates prepared in Cell Extraction Buffer (Cat. # FNN0011) and NP40 Cell Lysis Buffer (Cat. # FNN0021). Optimization of cell stimulation and cell lysis procedures may be required for each specific application. Refer to the User Manual included in the Buffer Reagent Kit for further information.

Example Data: To evaluate the performance of this kit, natural Glycogen Synthase [pSpS641/645] from Jurkat cell lysate was serially diluted in *Assay Diluent*. The median fluorescence intensity of each dilution was plotted against the Glycogen Synthase [pSpS641/645] standard curve. Parallelism is presented in the figure to the right and indicates that the recombinant standard accurately reflects Glycogen Synthase [pSpS641/645] content in cell lysate.



The data presented to the right demonstrate the impact of the *Sample Treatment Buffer* pre-incubation step on the observed signal. In this study, Jurkat cells were lysed in Cell Extraction Buffer (FNN0011). Lysates were either treated with *Sample Treatment Buffer* (+STB) or the *Sample Treatment Buffer* incubation step was omitted (-STB). For the treatment, 5 μ L of Jurkat cell lysate was diluted with 5 μ L of *Sample Treatment Buffer* (ST001) and incubated on ice for 20 minutes. After incubation, 40 μ L of Assay Diluent (DA04) was added to the treated sample.



Explanation of symbols			
Symbol	Description	Symbol	Description
[REF]	Catalogue Number	[LOT]	Batch code
[RUO]	Research Use Only	[IVD]	In vitro diagnostic medical device
[U]	Use by	[T]	Temperature limitation
[M]	Manufacturer	[ECTREP]	European Community authorised representative
[-]	Without, does not contain	[+]	With, contains
[P]	Protect from light	[A]	Consult accompanying documents
[I]	Directs the user to consult instructions for use (IFU), accompanying the product.		

By purchasing this Kit, which contains fluorescently labeled microsphere beads authorized by Luminex® Corporation ("Luminex®"), you, the customer, acquire the right under Luminex's patent rights to use this Kit or any portion of this Kit, including without limitation the microsphere beads contained herein, only with Luminex's laser based fluorescent analytical test instrumentation marketed under the name Luminex® 100™ or 200™. This product is covered by one or more of the following U.S. patents: 6,046,807.

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