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Datasheet for UniGlow-0100**UniGlow™ - One Component Chemiluminescent Substrate****Overview**

Description:	UniGlow™ - One Component Chemiluminescent Substrate - UniGlow-0100
Item No.:	UniGlow-0100
Size:	100 mL
Applications:	ELISA, Microarray, WB

Product Details

Background:	Enhanced Chemiluminescence (ECL) involves the enzymatic oxidation of luminol, a process that is catalyzed by peroxidase (HRP) enzyme. In the presence of HRP and a peroxide, luminol is oxidized, and emits light. The intensity of the emitted light is proportional to the amount of HRP-bound target, allowing for the quantitative detection of proteins.
Synonyms:	Western blot detection, chemiluminescent substrate One Component System, luminol-based chemiluminescent substrate for horseradish peroxidase (HRP) detection

Target Details

Relevant Links:	<ul style="list-style-type: none">• UniGlow SDS
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Application Details

Suggested Applications:	ELISA, Microarray, WB (Based on references)
Application Note:	UniGlow™ is a highly sensitive, nonradioactive, enhanced luminol-based, chemiluminescent, ready-to-use peroxidase (HRP) substrate and no mixing is required. UniGlow™- One Component Chemiluminescent Substrate is for use in microwell or membrane applications. Protect from light - UniGlow™ Substrate is a highly sensitive detection reagent allowing for the detection of picograms (6-12 pg) amounts of antigen. Equilibrate to room temperature before use and aliquot into a clean container. Use ~100μL/cm ² of membrane. Optimal detection visualized after contact of substrate with HRP enzyme on membrane for ~1-10min. Blot off excess substrate before imaging. Always carefully optimize all components of individual assays (antigens, antibodies, conjugates...) to minimize background reactivity associated with non-specific binding.

Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1X
WB:	1X
Other:	DOE: 05/10/2025

Formulation

Physical State:	Liquid - light red colored
Concentration:	1X

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store container at 4° C prior to opening. Protect from moisture and light. No special shipping conditions or precautions are required.
Expiration:	Expiration date is two (2) years from date of receipt.

Images



Bottle
 UniGlow™ - One Component Chemiluminescent Substrate

References

- Shrestha RL et al. CENP-A overexpression promotes aneuploidy with karyotypic heterogeneity. *J Cell Biol.* (2021)
- Ghosh S et al. A new microchannel capillary flow assay (MCFA) platform with lyophilized chemiluminescence reagents for a smartphone-based POCT detecting malaria. *Nature.* (2020)
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- Trabbic K., Whalen K., Abarca-Heideman K., Xia L., Temme J., Edmondson E., Gilersleeve J., Barchi J. A Tumor-Selective Monoclonal Antibody from Immunization with a Tumor-Associated Mucin Glycopeptide. *Nature Scientific Reports.* (2019)
- Ohkuni K et al. N-terminal sumoylation of centromeric histone H3 variant Cse4 regulates its proteolysis to prevent mislocalization to non-centromeric chromatin. *G3 (Bethesda).* (2018)
- Shrestha RL et al. Mislocalization of centromeric histone H3 variant CENP-A contributes to chromosomal instability (CIN) in human cells. *Oncotarget.* (2017)

Disclaimer

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