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## Datasheet for UniGlow-0020

# UniGlow™ - One Component Chemiluminescent Substrate

## Overview

<b>Description:</b>	UniGlow™ - One Component Chemiluminescent Substrate - UniGlow-0020
<b>Item No.:</b>	UniGlow-0020
<b>Size:</b>	20 mL
<b>Applications:</b>	ELISA, Microarray, WB

## Product Details

<b>Background:</b>	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.
<b>Synonyms:</b>	Western Blot detection, chemiluminescent substrate One Component System, luminol-based chemiluminescent substrate for horseradish peroxidase (HRP) detection

## Target Details

<b>Relevant Links:</b>	<ul style="list-style-type: none"><li><a href="#">UniGlow SDS</a></li></ul>
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## Application Details

<b>Suggested Applications:</b>	ELISA, Microarray, WB (Based on references)
<b>Application Note:</b>	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 <sup>2</sup> 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

## Formulation

**Physical State:** Liquid - light red colored

**Concentration:** 1X

## Shipping & Handling

**Shipping Condition:** Ambient

**Storage Condition:** Store container at 2-8° C prior to opening. Protect from moisture and light. No special shipping conditions or precautions are required.

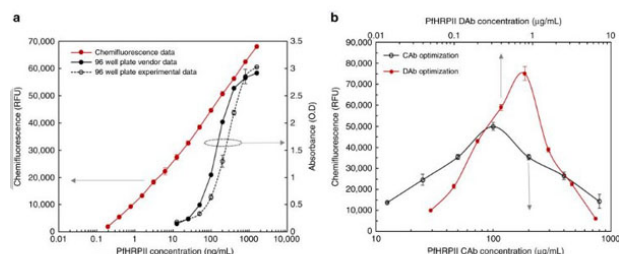
**Expiration:** Expiration date is two (2) years from date of receipt.

## Images



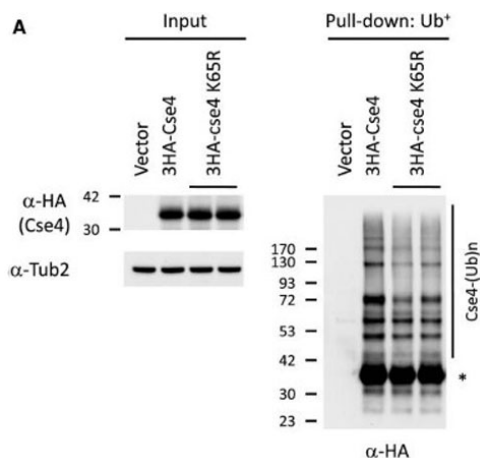
### Bottle

UniGlow™ - One Component Chemiluminescent Substrate



## ELISA

Optimization results of the assay reagents. a 96 well plate assay results plotted on the right axis and Chemifluorescence assay result obtained from Optimizer™ microfluidic microplate is plotted on the left axis showing lower LOD and higher dynamic range and b Chemifluorescence signal output variation with increase in PfHRP2 capture antibody (CAb) concentration (bottom axis) and increase in PfHRP2 detection antibody (DAb-HRP) concentration (top axis) at a fixed DAb-HRP concentration (0.1 μg/mL) and at a fixed CAb concentration (100.0 μg/mL), respectively. Each point represents the mean of three replicates. Fig. 4. PMID: 34567620.



## Western Blot

Cse4 ubiquitination is reduced in a cse4 K65R mutant. (A) Protein extracts were prepared from wild-type strain (BY4741) transformed with vector (pMB433), pGAL-3HA-CSE4 (pMB1458), or pGAL-3HA-cse4 K65R (pMB1791) grown in raffinose/galactose (2%) for 4 hr to induce expression of Cse4. Agarose-TUBE1 was used to pull down tandem ubiquitin binding entities and ubiquitination levels of Cse4 were detected by western blot analysis with anti-HA antibody. Input samples were analyzed using anti-HA (Cse4) and anti-Tub2 antibodies. Asterisk shows non-modified Cse4. One Component Chemiluminescent Substrate (p/n UniGlow-0100). Figure 2. PMID: 29432128.

## 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)
- Sthitodhi Ghosh et al. A new microchannel capillary flow assay (MCFA) platform with lyophilized chemiluminescence reagents for a smartphone-based POCT detecting malaria. *Microsyst Nanoeng.* (2020)
- 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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