For signal detection a luminometer is required. Longer exposure may allow detection down to 20 fg.

**For signal detection a luminometer is required.**

**ELISTAR Supernova ELISA**
Chemiluminescent Substrate for HRP Detection in ELISA
Prod. No. XLSE2

*Kit includes:*
- Luminol-Enhancer Solution amber bottle
- Peroxide Solution clear bottle

**ELISTAR Supernova Elisa** is intended for research use only, and shall not be used in any clinical procedures, or for diagnostic purposes.

**GENERAL PRODUCT INFORMATION**
- Extreme sensitivity
- Light generation is immediate
- Suitable for high-throughput applications
- As in any ELISA procedure, optimization of antibody, antigen and HRP-conjugate is essential
- Do not use sodium azide (NaN₃) as a preservative in buffers as it is a HRP inhibitor.
- To decrease background signal use a detergent. For example, Tween-20 may be added to the blocking reagent at a 0.05% final concentration
- 6-hour Working Solution stability

**REQUIRED MATERIALS**
1. 96-well opaque microplate
2. Capture Antibody in carbonate/bicarbonate buffer, pH 9.4 at 5-10 µg/ml
3. Wash Buffer such as TBS (0.25 M Tris, 0.15 M NaCl; pH 7.2) or PBS (0.1 M phosphate, 0.15 M sodium chloride; pH 7.2)
4. Blocking Buffer containing 0.05% Tween-20.
5. Primary antibody at 0.05-0.1 µg/ml
6. HRP – conjugate at 10-20 ng/ml

**PROTOCOL**

**FOR MICROPLATE DETECTION OF HRP**

1. Coat, block and wash microplate wells according to standard ELISA procedures
3. Add 100-150 µl of ELISTAR Supernova ELISA Working Solution to each microplate well
4. Mix liquid in wells for 1 minute using a microplate stirrer
5. Use a microplate luminometer to measure relative light units (RLU) at 425 nm, between 1-5 minutes after adding the Working Solution. Longer exposure may result in decreased signal intensity
6. Note: A test tube luminometer can be used, by increasing the volume of Working Solution as needed.

**STORAGE**

Upon receipt stored at 4°C. Shipped at ambient temperature
Stability one year from date of receipt when stored properly.

**REFERENCES**

ELISTAR is manufactured in compliance with our ISO 9001 certified quality management system. ELISTAR is intended for research use only, and shall not be used in any clinical procedures, or for diagnostic purposes.


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