

APS-5 Chemiluminescent Substrate Solution



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Basic Information

Name	APS-5 Chemiluminescence Substrate Solution.
Item number	HH3605
Appearance	light yellow clear liquid
Storage conditions	2-8°C, strictly protected from light
Operating temperature	22-35°C
Stability	2-8°C can be stable for more than 1 year
Packaging	Brown plastic bottle
Recommended dosage	100-200 μL per test

Use

For alkaline phosphatase (Alkaline Phosphatase, ALP) as a standard Chemiluminescent immunodetection of markers. Suitable for tube luminescence, plate luminescence, POCT chemiluminescence detection, etc. same scene.

Functional principle

HH3604 chemiluminescent substrate solution is a new generation of immunodetection chemiluminescence Optical liquid, this product is a water-based mixed solution based on APS-5 compound liquid, through the optimization of key components such as enhancers, stabilizers,

and preservatives, The performance of the product has been greatly improved, and it can be used in the action of alkaline phosphatase (ALP). A chemiluminescence reaction occurs under use, and photons are rapidly released. After adding the sample The maximum luminous value can be reached in about 2 minutes, and the plateau period lasts long. This product is in the range of ALP enzyme concentration of 10⁻⁴-10⁻⁸ U, The number of photons released is proportional to the concentration of ALP in the solution, suitable for Chemiluminescence immunodetection reagent system with ALP as labeling enzyme, with It has the advantages of fast response, high sensitivity, high stability, and high signal-to-noise ratio.

Features

1. The background value is low, the luminous value is high, the signal-to-noise ratio is high, and the maximum luminous value is reached. The time is short, the ALP luminescence reaction enters the plateau phase within 2 min, and The luminescence value can remain stable for a long time (Fig. 1).
2. High sensitivity, can detect 10⁻⁸ U or even lower concentration of ALP enzyme son.
3. Wide linear range, ALP concentration is 5 orders of magnitude of 10⁻⁴-10⁻⁸U The luminescence values in the range are linearly related (Figure 2)

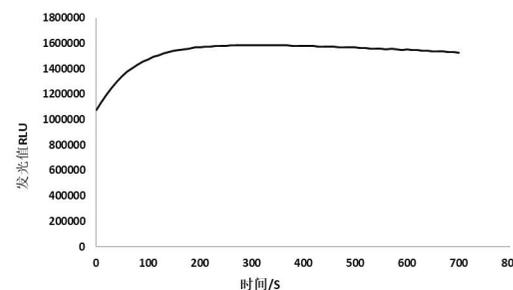


Figure1. Luminescence value-time of the reaction between APS-5 luminescent substrate solution and ALP enzyme kinetic curve

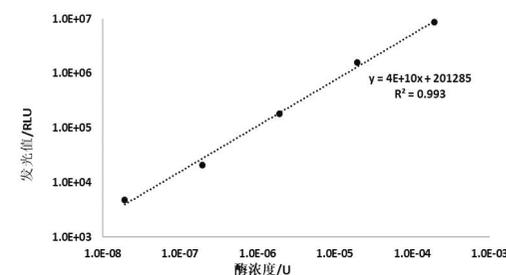


Figure 2. The APS-5 luminescent substrate solution has a wide linear range.

4. The validity period is long, and it can be stored at 2-8 °C in the dark, and can be stored stably for more than one year.

Quality Control

Please review the Certificates of Analysis for each batch (included with the product)

Precautions

1. It is normal for crystals to appear at the

bottom of the refrigerated bottle of this product, and it should be balanced to room temperature.

Warm (22-35°C) crystals disappear after use.

2. Strictly avoid light, under any circumstances (including before use) should be avoided Exposure to strong light, short exposures can cause the background signal to show.

3. Do not freeze.