KeyTec® TR-FLISA® Enhancement Solution



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Not For Diagnostic Or Therapeutic Use

Email: technical-support@vkeybio.com

KeyTec® TR-FLISA® Enhancement Solution

Instruction Manual

1. Introduction

KeyTec® TR-FLISA® Enhancement Solution is an acid solution containing chelating and detergent for quantitative determination of Eu³+/Sm³+ in a Time-Resolved Fluorescence Linked Immunosorbent Assay (TR-FLISA). Eu³+/Sm³+ labeling reagents are used to label macromolecules like proteins, peptides, and oligonucleotides, and the resulting markers are suitable for various types of analysis based on solid phase separations. After a series of manipulation steps, the remaining Eu³+/Sm³+-containing marker is immobilized onto a microtiter plate after the unbound portion is washed away. This solution is then added and can dissociate Eu³+/Sm³+ from the immobilized labeled antibody or protein within a few minutes, forming a homogeneous time-resolved fluorescent micellar chelate solution with extremely high brightness. Highly sensitive Eu³+/Sm³+ measurements can be performed using an instrument containing a time-resolved fluorescence module. Due to this solution dissociates Eu³+/Sm³+ into solution and produces an enhanced time-resolved fluorescence signal results in a low experimental background signal and a high upper measurement limit, thereby achieving a high signal-to-noise ratio and sensitivity.

2. Components

Components	A3010002S	A3010002L	A3010002B
	(50 mL)	(250 mL)	(4*250 mL)
KeyTec® TR-FLISA®	1 bottle	1 bottle	4 bottles
Enhancement Solution	50 mL/bottle	250 mL/bottle	250 mL/bottle

Website: www.vkeybio.com



3. Storage Conditions

• Upon receipt, store the kit below 4°C. It is recommended that this reagent be used within the validity period indicated on the Certificate of Analysis.

4. Use and precautions

- Allow reagents to reach room temperature before performing an assay.
- It is recommend using DELFIA-branded plates for DELFIA assays, also available in clear enzyme labeling plate.
 NOTE: Actual results may vary depended on the performance of the microplate used.
- Pour the required amount of Enhancement Solution into a 15-mLor 50-mL disposable plastic conical tube. Do
 not store Enhancement Solution in glassware.
- Due to the high sensitivity of this assay, it is essential to exercise caution to prevent Eu³⁺/Sm³⁺ accumulation and contamination, which could result in elevated background levels or cross-contamination.
- Use 200 μL of Enhancement Solution for 96-well and 50 μL for 384-well plates.
- Dispense the Enhancement Solution slowly and shake gently for 5 min to avoid air bubbles.
- The incubation time for the assay varies depending on the Eu³⁺/Sm³⁺ chelate, typically ranging from 5 to 30 minutes. This should be determined in the initial experiment.