

Highly Stable Luciferase/Luciferin Reagent Kit

Cat. No. Kit-0526 Lot. No. (See product label)

SPECIFICATION

Product Overview	Highly Stable Luciferase/Luciferin Reagent Kit is used for measuring ATP levels in a wide variety of biological samples.
Description	Highly Stable Luciferase/Luciferin Reagent Kit utilizes a genetically modified variant derived from the Luciferase of <i>Diaphanes pectinealis</i> (Chinese Firefly) endemic to Yunnan province, China. luciferase (rLucHS) has been modified to provide enhanced stability compared to the normal phenotype of <i>Photinus pyralis</i> , as well as a broader and more physiologically relevant effective pH range. At all pHs below ~ 8.2, rLucHS is significantly more active than commercial <i>Photinus pyralis</i> luciferase and is stable for weeks at room temperature and >60 min at 37°C. The specific activity of rLucHS is ~ 5 x 10 ¹¹ RLU/mg protein. This reagent has application to measure ATP levels in a wide variety of biological samples such as cells, tissues and fermentation broth, etc.
Target Species	Mammals
Usage	For research use only (RUO)
Storage	Store vials at -80°C, protected from light; good for 1 year.
Kit Components	StayBrite Reconstitution Buffer. Cap code: clear. 1.2 ml rLucHS Reagent Mix. Cap code: green. 1 vial
Detection method	Luminescence
Compatible Sample	Cell Homogenate, Fermentation Broth, Tissue Homogenate

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