

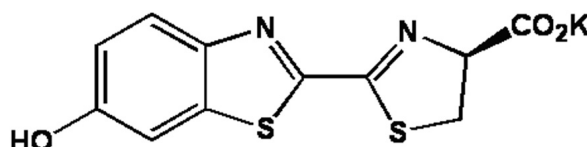
IVIS | XenoLight Rediject D-Luciferin

Bioluminescent Reagent for *In Vivo* Imaging

Product Name: XenoLight Rediject D-Luciferin

Part Number: 760504

Molecular Information: $C_{11}H_7KN_2O_3S_2$
Mwt: 318.4



Rediject D-Luciferin (K⁺ salt) is a bioluminescence substrate in a ready to use format developed by the *in vivo* imaging leaders to fit your laboratory workflow. With Caliper's Rediject D-Luciferin you can ensure a reproducible result by minimizing variability in formulation, minimizing freeze/thaw and controlling batch to batch variation. With over 1,000 publications and millions of mice imaged, Caliper has formulated its substrates to fit common workflow patterns and optimize results. You are free to concentrate on animal handling and biology.



- Pre-formulated, batch controlled D-Luciferin for *in vivo* use
- Save substantial time and effort by minimizing pre-imaging preparation steps
- Dispensed to image 5 animals per vial* (10 vials/kit)
- *In vivo* imaging quality, validated on IVIS imaging systems

Color and Form: Yellow colored solution (D-Luciferin Potassium salt in PBS)

Concentration: 30 mg/mL

Volume per vial: 10 sterile vials each containing 850 μ L of 30 mg/mL D-Luciferin

Storage and Handling: Store at ≤ -70 °C. Just before your experiment, thaw required number of vials in a 37 °C water bath, vortex and it is ready to use. Repeated freeze thaw is not recommended. Rediject D-Luciferin supports intravenous, subcutaneous or intraperitoneal injection.

For *in vivo* imaging studies, we recommend intraperitoneal injection at 150 mg/kg (150 μ L /mouse*). Load a 1mL syringe directly from the vial and inject using a 25 gauge needle.

* Calculations based on a 30g mouse

Stability of Rediject D-Luciferin

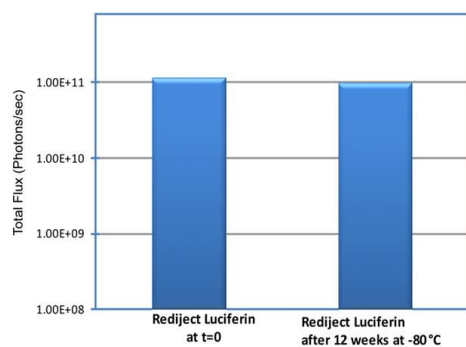
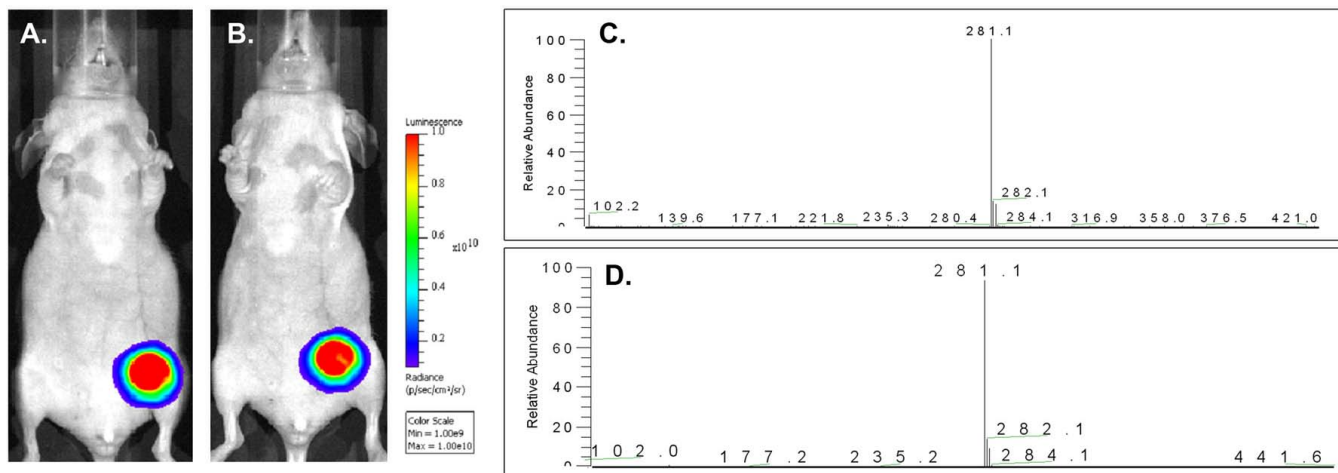


Figure 1. Nu/Nu mice were implanted with Bioware Ultra cell line 4T1-luc2 (5×10^5 cells/mouse) orthotopically in the mammary fat pad. Images on the left show luciferase signal from mice injected with Rediject D-Luciferin that was freshly prepared (**A**) and Rediject D-Luciferin that was stored at -80°C for 12 weeks (**B**). Mice were injected with the respective D-Luciferin intraperitoneally (150 mg/kg) and imaged with an IVIS imaging system 10 minutes post injection. The chart on the left shows bioluminescence signal from the tumor in photons/sec, suggesting that Rediject D-Luciferin maintained its stability after 12 weeks of storage at -80°C . The chart above (**C**) shows Mass Spec data from Rediject D-Luciferin ($T=0$) and Rediject D-Luciferin stored at -80°C for 12 weeks (**D**), showing a single peak.

Check out our other XenoLight reagents, all of which are optimized for *in vivo* imaging with IVIS systems

Catalog Number	Product Name	Quantity
760504	XenoLight Rediject D-Luciferin	50 injections
760505	XenoLight Rediject D-Luciferin Ultra	50 injections
760506	XenoLight Rediject Coelenterazine h	50 injections
122796	XenoLight D-Luciferin - K ⁺ Salt	1 g
125673	XenoLight CF 680 Fluorescent Labeling Kit	3 labelings
125674	XenoLight CF 750 Fluorescent Labeling Kit	3 labelings
125675	XenoLight CF 770 Fluorescent Labeling Kit	3 labelings
125676	XenoLight CF 680 NIR Fluorescent Dye	1 μmole
125677	XenoLight CF 750 NIR Fluorescent Dye	1 μmole
125678	XenoLight CF 770 NIR Fluorescent Dye	1 μmole
125964	XenoLight CF DiR	25 mg