

D-Luciferin Potassium and Sodium Salts - Results

OZ Biosciences is pleased to announce the launching of D-Luciferin Potassium (K⁺) and Sodium (Na⁺) salts for bioluminescent assays. **D-Luciferin K⁺ and Na⁺ salts** are dedicated to *in vitro* and *in vivo* bioluminescent assays. The quality and purity of the D-Luciferin are essential to obtain good and reproducible results. OZ Biosciences is offering high quality of **Endotoxin-Free** D-Luciferin K⁺ and Na⁺ salt

Main features are:

1. High purity > 99.5%
2. Good solubility and great sensitivity
3. Reliable *in vivo* reporter for bioluminescent assays
4. Endotoxin free (ideal for *in vivo* application)
5. Suitable for *in vitro* experiments
6. Quick and easy diffusion throughout the animal

Applications

- Bioluminescent assays in living cells, tissues and animal models
- Luciferase reporter gene assays
- Whole animal imaging (*in vivo* reporter assay)
- Appropriate read-out for transfection/transduction with luciferase reporter gene and luciferase-fusion constructs
- ATP assays (Luciferase catalyzes conversion of ATP into AMP) and immunoassays
- Pyrosequencing, luciferase fragment complementation for sequential gene analysis experiments

Example of whole animal imaging experiment

Luciferase-expressing tumors cells were intraperitoneally injected in a mouse to induce a tumor. Several days later, D-Luciferin was injected intravenously to detect bioluminescent cells.

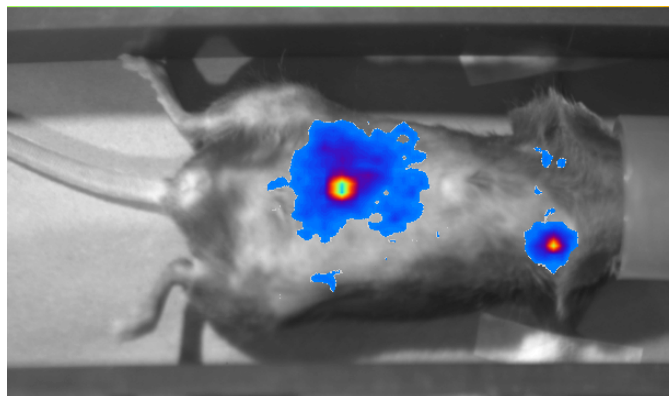


Figure 1: 13 days after cells injection.

We are grateful to Michel Buferne (CIML INSERM-CNRS, Marseille) for kindly providing these data.

Comparison of D-Luciferin Na⁺ salt from competitors post-injection

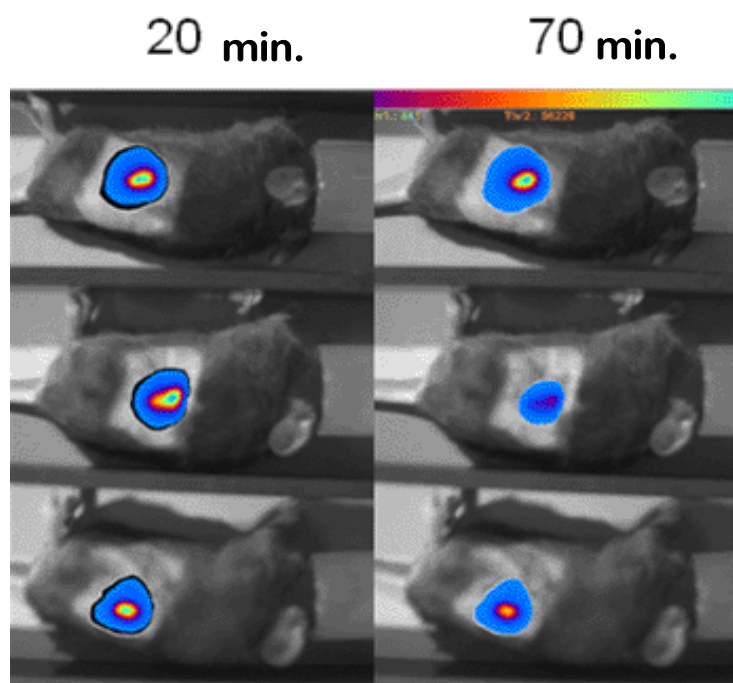


Figure 2:

D-Luciferin Na⁺ Salt(OZ Biosciences)

D-Luciferin Na⁺ Salt from C.

D-Luciferin Na⁺ Salt from P.

Time course of Luciferin K+ and Na+ signal

