

	SOP-BCR-4.27	<b>Preparing Luciferin</b>	Author: S. Clouthier  Approved: M. Wicha 	Rev: 0	Issued: 08/14/12 Revised: 09/24/12
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### 1.0 Purpose

The purpose of SOP 4.27 is to provide information on proper procedure for preparing luciferin to be used for live imaging in vitro and in vivo.

### 2.0 Scope

SOP 4.27 is intended to cover all resources, personnel and equipment in the BCR laboratory.

### 3.0 Materials

No	Name	Description	Location
1.0	Luciferase	1 g from Regis Tech., cat# 360222	Fridge #1 (026-328S)
2.0	PBS 1X	Gibco # 10010-023	Walk-in cold room, B026-380C
3.0	Steriflip	50 mL .22 uM filter, Millipore cat# SCGP00525	320S-A

### 4.0 Procedure-**PREPARE IN THE DARK, LIGHT SENSITIVE!**

- 4.1 Dissolve 1 gram of yellow luciferin powder in 33.3 mL of 1X PBS, by adding 33.3 mL of PBS to the luciferin amber bottle, for **final stock concentration of 30 mg/mL**. Mix well.
- 4.2 Filter through a 50 mL .22 uM filter Steriflip.
- 4.3 Aliquot 1.5 mL into sterile amber 1.7 mL eppendorf tubes and store aliquots in freezer #2 in luciferin aliquot box in the metal rack.

### 5.0 Applicable References

### 6.0 Change Description

Revision	Date	Reference	Description of Change