

	SOP-BCR-4.24	<b>Preparation of DAPI or PI stock solution</b>	Author: S. Clouthier <i>S. Clouthier</i>	Rev: 2.0	Issued: 1/6/2010
			Approved: M. Wicha <i>M. Wicha</i>		Revised: 8/8/14

### 1.0 Purpose

SOP-BCR-4.24 details the preparation of 1mg/ml DAPI stock solution.

### 2.0 Scope

BCR-SOP-4.24 covers all personnel, resources and equipment in the experimental BCR lab.

### 3.0 Materials & Locations

Description	Storage Location
DAPI (4',6-Diamidino-2-phenylindole dihydrochloride) <b>OR</b> P.I. (Promidium Iodide)	Fridge #1 (026-314S)
Sterile H <sub>2</sub> O	

### 4.0 Procedure

#### **FIRST TURN OFF LIGHTS-MAKE THESE IN THE DARK!**

- 4.1 Remove DAPI (Sigma Aldrich, cat# D8417, 5mg) or P.I. (Sigma, cat# P4170, 5 mg) from fridge and dilute as outlined below:
- 4.2 For 5 mg size, dilute DAPI or P.I. with 5mL of sterile H<sub>2</sub>O, final concentration should be 1mg/mL.
- 4.3 Mix well in sterile conditions until powder is completely dissolved.
- 4.4 Aliquot the diluted DAPI or P.I. into 500uL aliquots in eppendorf tubes, label each aliquot with name, date and concentration (1mg/ml in H<sub>2</sub>O).
- 4.5 Store aliquots at -20°C Freezer #2 (026-314S) in the box labeled "DAPI" or "PI" respectively.

### 5.0 Applicable References

- Please refer to Sigma Aldrich website for more product information and data sheets.

### 6.0 Change Description

Revision	Date	Description of Change
1.0	7/24/12	Added room locations
2.0	8/8/14	Added "Make these in the dark"