

Document No. 3104, A02, A01	Revision Number 00	Effective Date 07 July 08	Supersedes Date N/A	Page 1 of 1
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Document Title:

**PURIFIED HUMAN PANCREATIC ISLETS,  
VIABILITY ESTIMATION OF ISLETS USING FLUORESCENT DYES,  
ATTACHMENT I, PREPARATION OF FLUORECEIN DIACETATE AND  
PROPIDIUM IODIDE SOLUTIONS**

**1.0 Stock Fluorecein Diacetate (FDA) Solution (24 µM)**

Calculation:

FDA FW = 416.4      Stock Concentration = 24 µM      Volume required = 200 mL  
 FW X Concentration X Volume = (416.4) X (24 x 10<sup>-6</sup>) X (200 x 10<sup>-3</sup>) = 0.00199 g FDA

Components	Quantity to be Added	Quantity Added	Supplier & Lot Number	Expiration Date
FDA	0.00199 g	g		
Acetone	200 mL	mL		

- Store Stock FDA solution at ≤ -20°C for up to six months.
- Cover it with aluminium foil, as the dye is light sensitive.
- Label with assigned lot number, date of expiration and initials of preparer.

Assigned Lot Number: \_\_\_\_\_

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

**2.0 Stock Propidium Iodide (PI) Solution (750 µM)**

Calculation:

PI FW = 668.4      Stock Concentration = 750 µM      Volume Required = 25 mL  
 FW X Concentration X Volume = (668.4) X (750 x 10<sup>-6</sup>) X (25 x 10<sup>-3</sup>) = 0.0125 g PI

Components	Quantity to be Added	Quantity Added	Supplier & Lot Number	Expiration Date
PI	0.0125 g	g		
DPBS	25 mL	mL		

- Store Stock PI solution at 2° to 8°C for up to six months.
- Cover it with aluminium foil, as the dye is light sensitive.
- Label with assigned lot number, date of expiration and initials of preparer.

Assigned Lot Number: \_\_\_\_\_

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_