

## SOP-P024

### How to Make up Dilutions for Pacific Blue Dye for HTS (High Throughput Screening) Experiments.

**Purpose:** to make dilutions for Pacific Blue dye (Invitrogen P-10163) to be used in HTS.  
Note: MW= 339.21

Make dilutions in methanol

Amine reactive pacific blue succinimidyl ester forms blue fluorescent bioconjugates with ex/em ~410/455, excitable by the blue diode (violet) laser(405nm).

For structure:

<http://www.invitrogen.com/site/us/en/home/support/Product-Technical-Resources/Product-Structures.-110163.html>

#### Procedure:

1. Prepare a 1mg/ml (1000 $\mu$ g/ml) in methanol solution.
2. Make up the following dilutions from the above.
  1. 1:10 dilution, 1ml of 1000 $\mu$ g/ml plus 9ml methanol (=100 $\mu$ g/ml)
  2. 1:2 dilution of above, 1ml of 100 $\mu$ g/ml plus 1ml methanol (= 50 $\mu$ g/ml)
  3. 1:5 dilution of above, 1ml of 50 $\mu$ g/ml plus 4ml methanol (=10 $\mu$ g/ml)
  4. 1:4 diltion of above, 1ml 10 $\mu$ g/ml plus 3ml methanol (=2.5 $\mu$ g/ml)
  5. 1:4 dilution of above, 1ml of 2.5 $\mu$ g/ml plus 3ml methanol (=0.625 $\mu$ g/ml)
  6. 1:4 dilution of above, 1ml of 0.625 $\mu$ g/ml plus 3ml methanol (=0.156 $\mu$ g/ml)

-----  
**Created by:** J.P. Robinson

August 17, 2009

**Verified by:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Print Name

Sign Name