

# Nile Blue

Learn how to make Nile blue solution, used as a protozoa stain and a pH indicator.

## Materials

Nile Blue Dye  
Distilled Water  
Glass Bottle (item #716292)  
Stir Bar  
Magnetic Stir Plate (item #701023)  
Erlenmeyer Flask, 100-mL (item #731031)  
Graduated Cylinder (item #721744)  
Label

### Don't want to make it yourself?

Find Nile Blue ChemCapsules at Carolina.com

Item Number

877400

## Procedure

Dissolve 0.1 g Nile blue dye in 100 mL distilled water.

## Label Information

### Nile Blue

Eye and skin irritant

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

Initials of Preparer: \_\_\_\_\_

Health Risk: 2

Flammability: 1

Reactivity: 0

## Applications

Nile blue is used to stain the macronucleus of protozoa green and food vacuoles blue. It is also used as a pH indicator with a range of 10.1 (blue) to 11.1 (red).

## Reference

Brandwein, P. F., and E. Morholt. 1986. *A sourcebook for the biological sciences*, 3rd ed. Orlando, FL: Harcourt Brace Jovanovich, 1986, p. 137.