

Carolina™ Solution Sheets

# Janus Green B

Learn how to make Janus green B stain and use it for staining mitochondria.

## Materials

Janus Green B (item #883789)  
Absolute Ethanol (item #861300)  
Distilled Water (item #858621)  
Stir Bar  
Magnetic Stir Plate (item #701023)  
Erlenmeyer Flask, 25-mL (item #731025)  
Graduated Cylinder (item #721744)  
Label

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

Find Janus green B at Carolina.com

**Item Number**

869573

## Procedure

Prepare a Janus green B stock solution by dissolving 0.1 g of Janus green B into 2 to 3 mL of absolute ethanol or glacial acetic acid. Dilute to 100 mL with distilled water.

## Notes

- Janus green B is often used in conjunction with neutral red staining solution.

## Label Information

Janus Green B

Eye Irritant

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

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

Health Risk: 0

Flammability: 0

Reactivity: 0

## Applications

Janus green B is specific to mitochondria in protozoa. Additionally, it can also be used to stain frog's blood and bacterial inclusions and Golgi bodies in protozoa. The efficacy of Janus green B is affected by cell enzyme activity; therefore, the aforementioned inclusions might not account for the total inclusions picked up by the staining solution.

## Reference

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