

Neutral Red

Learn how to make neutral red solution, used as a pH indicator and for staining mitochondria.

Materials

Neutral Red (item #876832)
Absolute Ethyl Alcohol (item #861300)
Glass Bottle (item #716292)
Stir Bar
Magnetic Stir Plate (item #701023)
Erlenmeyer Flask, 100-mL (item #731028)
Graduated Cylinder (item #721744)
Label

Don't want to make it yourself?
Find neutral red solution at Carolina.com

Item Number
876855

Procedure

Mix 0.5 g of neutral red powder into 100 mL of absolute ethanol.

Notes

- Used with Janus green B for staining mitochondria.

Label Information

Neutral Red

Flammable

Date Prepared: _____

Initials of Preparer: _____

Health Risk: 1

Flammability: 0

Reactivity: 1

Applications

Neutral red is used with Janus green B to stain embryonal tissues and blood tissues; it can also be used to stain lysosomes proximate to Golgi bodies. Neutral red is also a pH indicator with a range of 6.8 (red) to 8.0 (yellow).

Reference

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