

Carolina™ Solution Sheets

Gram's Iodine

Learn how to make Gram's iodine solution and about its use as a starch indicator.

Materials

Potassium Iodide (item #883789)
Iodine Crystals (item #868984)
Distilled Water (item #858621)
Amber Glass Bottle (item #715759)
Stir Bar
Magnetic Stir Plate (item #701023)
Erlenmeyer Flask, 100-mL (item #731028)
Label

Don't want to make it yourself?

Find Gram's iodine at Carolina.com

Item Numbers

865863, 865865, 865867

Procedure

1. Add 0.66 g potassium iodide to 100 mL distilled water.
2. Add 0.33 g iodine crystals to above solution.

Notes

- First dissolve the potassium iodide and then the iodine crystals to ensure the iodine will go into solution.

Label Information

Gram's Iodine

May cause skin and eye irritation

Date Prepared: _____

Initials of Preparer: _____

Health Risk: 1

Flammability: 0

Reactivity: 2

Applications

Gram's iodine, like many iodine solutions, can be used for starch detection. It is also used as a stain for starchy pollen grains or corn kernels.

Reference

Brandwein, P. F., and E. Morholt. 1986. *A sourcebook for the biological sciences*, 3rd ed. Orlando, FL: Harcourt Brace Jovanovich, 1986, p. 520.