

B. GENERAL TESTS

Readily Carbonizable Substances Test

The Readily Carbonizable Substances Test is designed to determine the allowable limit of impurities in a substance, which are readily colored by sulfuric acid, when a sample is dissolved in sulfuric acid.

Procedure Unless otherwise specified, proceed as directed below.

Before use, wash thoroughly a colorless, hard-glass test tube with 94.5 - 95.5% sulfuric acid. Unless otherwise specified, when the sample is a solid, place 5 ml of 94.5 - 95.5% sulfuric acid into the test tube, add the specified quantity of the powdered sample in small portions, and dissolve completely by stirring with a glass rod. When a sample is a liquid, measure the specified quantity of the sample, and place into the test tube. Add 5 ml of 94.5 - 95.5% sulfuric acid, and mix by shaking. If the temperature of the content in the tube rises, cool it. If the reaction may be affected by the temperature, maintain it at the standard temperature. Allow to stand for 15 minutes. Place the Matching Fluid, specified in the individual monograph, into another test tube with the same quality and form as used for a sample, and use this solution as the control solution. Compare the color with that of the control solution against a white background by observing from above and from side. The color of the sample is not deeper than that of the control solution.

When the specification "to dissolve the sample in sulfuric acid while heating" is given, place the sample and sulfuric acid in the test tube, heat as directed in the individual monograph, and compare the color with that of the control solution.