

Oxalate Limit Test

Dissolve a known quantity of sample as specified in the specifications monograph in 4 ml of water; add 3 ml concentrated hydrochloric acid and then 1g of granulated zinc. Heat for 1 min in a boiling water bath. Let stand for 2 min at room temperature; decant the supernatant solution into a test tube containing 0.25 ml of a 1% solution of phenylhydrazine hydrochloride. Mix, heat to boiling and cool immediately. Transfer the solution into a glass cylinder with a ground glass stopper and add an equal volume of concentrated hydrochloric acid. Add 0.25 ml of a 5% solution of potassium hexacyanoferrate (III), mix well and let stand for 30 min. Measure the absorbance at 520 nm in 10 mm cell. The absorbance is not more than that of a standard solution, prepared in the same manner, using 1 ml of oxalic acid standard solution (prepared by dissolving calculated amount, in mg, equivalent to the limit specified for oxalic acid or oxalic acid dihydrate in 1000 ml of deionized water) diluted with 3 ml of deionized water.