

B. GENERAL TESTS

Chloride Limit Test

The Chloride Limit Test is designed to determine the allowable limit of chloride contained in a sample.

Hereinafter in the Monographs, such a specification as “ not more than 0.041% as Cl (0.30 g, Control solution 0.01 mol/l hydrochloric acid 0.35 ml) ” indicates that when determined by weighing 0.30 g of the test substance as the sample and proceeding as directed in the following procedure, using 0.35 ml of 0.01 mol/l hydrochloric acid in the preparation of the control solution, the chloride content of the substance is not more than 0.041% as Cl.

Procedure (1) Preparation of Test Solution and Control Solution Unless otherwise specified, proceed as follows: When only the quantity of the sample is specified, measure the specified quantity of the sample, transfer into a Nessler tube, and dissolve in about 30 ml of water. Neutralize it with diluted nitric acid (1 : 10) if the solution is alkaline. Add 6 ml of diluted nitric acid (1 : 10) and water to make 50 ml, and use this solution as the test solution. When the preparation of a sample solution is directed, transfer the sample solution into a Nessler tube, add 6 ml of diluted nitric acid (1 : 10) and water to make 50 ml, and use this solution as the test solution. Measure the specified amount of 0.01 mol/l hydrochloric acid, and transfer into another Nessler tube. Add 6 ml of diluted nitric acid (1 : 10) and water to make 50 ml. Use this solution as the control solution. If the test solution is not clear, filter both solutions under the same procedure.

(2) Test Unless otherwise specified, add 1 ml of silver nitrate solution (1 : 50) to the test solution and to the control solution, mix thoroughly, and allow to stand for 5 minutes, protecting from direct sunlight. Then observe both Nessler tubes from the side and from above against a black background, and compare the turbidity. The turbidity developed in the test solution is not thicker than that of the control solution.